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Bulletin 421 July 1955

THE UNIVERSITY OF NEW HAMPSHIRE

AGRICULTURAL EXPERIMENT STATION

Department of Agricultural and Biological Chemistry

Inspection of Commercial Feedingstuffs

Made for the

State Department of Agriculture

By H. A. DAVIS and V. F. STAAB

The University of New Hampshire
Durham, N. H.

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MANCHESTER, N. H.

INSPECTION OF COMMERCIAL FEEDINGSTUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The Commissioner of Agriculture administers the New Hampshire Commercial Feed Law. All inquiries concerning the law and the registration of feedingstuffs should be addressed to the attention of the Feed Control Supervisor, State House, Concord, New Hampshire.

In carrying out the provisions of the law during the year ending June 30, 1955, 710 official samples of feedingstuffs were collected under the direction of Honorable Perley I. Fitts, Commissioner of Agriculture, by Mr. George H. Laramie, Control Supervisor, and Mr. Harold Ayer, Assistant Control Supervisor. The samples were submitted to this laboratory for analysis. Of the 710 samples, 61 represented dry or canned cat and dog foods, products of 42 manufacturers, and 649 represented other animal feedingstuffs, products of 101 manufacturers.

THE LAW

The New Hampshire Commercial Feed Law, Chapter 226 of the Laws of the State of New Hampshire, conforms closely to the Uniform Feed Bill proposed by the Association of American Feed Control Officials. Every individual or firm expecting to sell feed products in New Hampshire should obtain a copy of the leaflet "New Hampshire Commercial Feed Law and Rules and Regulations" from the office of the Department of Agriculture, State House, Concord, New Hampshire. Purchasers of feedingstuffs should read this leaflet for official information concerning the requirements of the law.

Registration: Each brand of commercial feed offered for sale in the state must be registered. The term "Commercial feed" refers to "all materials which are distributed for use as feed for animals, other than man, and for wild birds kept in captivity, except (1) unmixed whole seeds and meals made directly from the entire seeds, (2) unground hay, and (3) whole or ground straw, stover, silage, cobs and hulls when not mixed with other materials."

The feedingstuff is usually registered by the manufacturer or jobber whether he is located within or outside the state. Feedingstuffs manufactured in other states are frequently handled by several middlemen before they reach the local distributor. Under the provisions of the law, if the manufacturer or jobber fails to make registration, the dealer is responsible. Dealers who purchase feed for resale must assure themselves that the brands they purchase are properly registered and the license fee paid; otherwise, they must assume that responsibility. The Feed Control Supervisor provides forms to be filed in his office for the registration of feeds. Copy of this form is shown on Page 4 and 5.

New Hampshire

APPLICATION FOR REGISTRATION OF COMMERCIAL FEEDINGSTUFFS

No. .....

Date .....

To the Commissioner of Agriculture, State Dept. of Agriculture, Concord, N. H.:

The undersigned hereby makes application for registration—reregistration—supplemental registration of the following commercial feedingstuffs (for the period ending December 31, 19):

(List products to be reregistered under heading REREGISTRATIONS. List under heading SUPPLEMENTAL those products added during the year.)

Attached are product data sheets which have affixed thereto a label to be used on, or attached to, the containers of feedingstuffs as required by paragraph 1 of Chapter 226, Revised Laws of N. H. Stock Foods Law. I hereby certify that the label or labels contain the information required by the law.

(Enclosed is ..... in the amount of $ ..... covering the registration fee for feedingstuffs. Registration fee is $15.00 for each feedingstuffs.)

Address correspondence to:

Attention ..... Firm Name .....

Street and No. ..... By .....

City and State ..... Title .....

.....

CERTIFICATE OF REGISTRATION

This certifies (that the registration fee has been paid and) that the above-listed products are this day registered under the provision of the New Hampshire Stock Foods law, and the sale is authorized when sold, offered or exposed for sale when labelled and otherwise in compliance with the law, until cancelled for cause (for the period beginning with the actual date of registration and continuing until December 31, unless the registration of any feed or feeds are cancelled).

NEW HAMPSHIRE DEPARTMENT OF AGRICULTURE

.....

Commissioner

Date .....

INSTRUCTIONS

Application for Registration: Submit cover sheet in duplicate. One copy will be returned as your Certificate of Registration.

Product Data Sheet: One or more (8½" × 11") sheets, to which is affixed a label, or if the label has not been printed, proposed copy or printer's proof may be affixed, for each product to be registered, must accompany the application. Number the attached data sheet pages and insert the page number in parentheses on the cover sheet immediately after the name of the feed.

Brands: List these on the application cover sheets under the headings and in the order "Reregistrations" and "New Registrations." (Reregistrations are renewals from the previous year. New Registrations are brands not registered the previous year.)

Reregistrations: (Renewals of registrations) require that all cover sheets be renewed. It is not necessary to renew Product Data Sheets except with respect to information which is different from that furnished when the feeds were registered or last reregistered.

Labeling: All labeling must be in accordance with New Hampshire Commercial Feed law, and all information on cover sheets and data sheets must comply with the above law.

(Note: The above instructions appear on the back of the Application for Registration).

Labeling: The law requires that any commercial feed offered for sale or sold in this state shall furnish on each package a clearly printed statement certifying:

the number of net pounds in the package

the name and principal address of the person guaranteeing the commercial feed

the name or brand under which the commercial feed is sold
the guaranteed analysis stating:

the minimum percentage of crude protein
the minimum percentage of crude fat
the maximum percentage of crude fiber

the name of each ingredient contained in the feed

In special cases, as in mineral feeds and vitamin supplements, requirements as listed in the law must be met. In the case of bulk deliveries a written or printed statement of the above information shall accompany delivery.

In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions of ingredients and standards. The Asso-

ciation has approved 20 official regulations which "should be adopted by State officials insofar as their statutes will permit." There are no conflicts with the New Hampshire feedingstuffs law in these regulations. Manufacturers and dealers are, therefore, expected to conform to the regulations of the Association in all matters not specifically mentioned in the law. A booklet containing these regulations, together with definitions of ingredients, official and tentative, as well as other instructive material, may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland. If the definitions and suggestions presented in this booklet are followed by the manufacturer, a correct and accepted list of ingredients complying with the law will appear on the tag. Carelessness or indifference in listing the ingredients should create sales resistance in the buyer. The purchaser will likely conclude that the manufacturer who is inaccurate in specifying the ingredients printed on the tag may be careless in selecting the ingredients he puts into the bag.

THE PURPOSE OF THE FEEDINGSTUFFS

The chief purpose of the feedingstuffs law is to protect the consumer against the inferior products which doubtless would soon appear on the market if the trade were not under state control. The law is primarily a correct-labeling act. It must not be assumed by the purchaser that every brand which meets the manufacturer's guarantee is a high-grade feed. The Commercial Feed Law does not prevent the sale of a low grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer, in purchasing feed from the manufacturer, and the consumer, in purchasing feed from the dealer, should make the specification that the feed delivered must comply with the New Hampshire Commercial Feed law. If the feed is not registered; if the protein, fat, and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or on a tag attached thereto, the purchaser is not protected by the law. He has no recourse under the commercial feed law if the feed he purchases is of inferior quality. If the buyer fails to assure himself that the legal requirements have been met, he accepts the feedingstuffs at his own risk.

The cost of a feedingstuffs inspection includes the drawing and analysis of samples, and the publication and distribution of the annual bulletin. The funds from which these costs are paid are accumulated from the license fee which the manufacturer is required to pay annually on each brand registered for sale in the state. A calculation based on the known costs of the inspection and the estimated retail value of the feedingstuffs sold annually shows that the cost of the inspection is only a fraction of a cent per 100-pound bag.

TERMS USED IN REPORTING ANALYSIS

The terms used in reporting the chemical analysis of a feedingstuff required by law are briefly defined as follows: PROTEIN is a collective term for a considerable group of compounds, all of which contain nitrogen. Ingredients high in protein are usually more expensive than the other ingredients, making protein the most important nutrient for consideration in determining the commercial value of a feedingstuff. The nutritional value of the proteins varies widely; therefore, a feedingstuff should contain protein from several sources to insure inclusion of all essential types. FAT is separated from the other components of a feedingstuff by extracting the moisture-free sample with anhydrous ether. In such ingredients as the cereals, the seed-meals, and animal products, the extract is nearly pure fat. A few ingredients such as alfalfa meal contain some ether soluble material which is not fat. When sulphur is present, the "ether extract" or fat found is much too high since sulphur is soluble in anhydrous ether. CRUDE FIBER is composed of cellulose and related compounds. Since crude fiber has little feeding value, the law requires that the maximum fiber be guaranteed rather than the minimum, as in protein and fat.

There are times when it is desirable to determine the moisture or water present in a feed. Any material in contact with the air will absorb or release some moisture depending upon the humidity and the kind of material. Since feeds are in contact with the air and since the moisture content varies somewhat with the moisture of the surroundings, it is the usual custom to report the analysis of a feed on the basis as it is used rather then on a perfectly dry basis. The ash or total mineral matter content is of value at times and is obtained by burning a sample of the feed until all the carbon is removed and only the minerals remain. The nitrogen-free extract contains the more soluble carbohydrates such as sugars and certain simple cellulose materials. The term carbohydrates includes the nitrogen-free extract plus the crude fiber. The nitrogen-free extract and carbohydrate content of a feed is determined by calculation after the analysis for certain other constitutents. The usual analysis of a feed may be summarized as follows. In using the following statement, all results must be expressed in terms of per cent.

100 minus the sum of "moisture" + "ash" + "protein" + "fat" + "crude fiber" equals the "nitrogen-free extract." Total carbohydrates equals "nitrogen-free extract" plus crude fiber.

The use of medicated feeds for special and specific purposes is increasing and new drugs that may be incorporated in feeds for the control of disease are constantly being studied. The use of drugs in feed must be carefully investigated and meet the approval of the Food and Drug Administration before it is put on the market. The laboratory has analyzed many of the feeds containing certain drugs during the past year and found no serious deficiencies. It is thought not advisable to publish results at this time since a more complete coverage is desirable.

Research has shown the value of added trace elements, growth factors, certain vitamins and other substances that will improve the growth and quality of livestock. These materials appear in the mixed feeds as their value is proven and the result is a product that can be fed with confidence and satisfaction by the grower of livestock.

OTHER COMMENT

The use of "bulk delivery" in the handling of feed continues to increase. This method presents special problems in handling to the consumer and the recommendations of the Experiment Station and the manufacturer should be carefully considered. With reasonable care bulk feed can be handled so that the product as fed is as uniform as bagged feed. Samples drawn at various points in the truck and at delivery points indicate that with the observance of proper precautions a uniform product is supplied the customer.

It is not within the scope of this bulletin to make recommendations regarding the use of commercial feedingstuffs. The Department of Dairy Husbandry and the Department of Poultry Husbandry are continuously studying feeding problems. The following publications of these departments are free to residents of New Hampshire. Address your request to Mail Service, University of New Hampshire, Durham, New Hampshire.

Ext. Bull. 67 Turkey Production in New Hampshire, 16 pp.
Ext. Cir. 312 Brooding and Rearing Chickens, 20 pp.
Ext. Cir. 282 Dairy Calves.
Sta. Bull. 401 Feed Standards for N. H. Broilers.
Ext. Bull. 114 Feeding Dairy Cattle.

While the word feedingstuffs does not appear in all the above titles, no publication is included which does not discuss some aspect of the use of feedingstuffs.

Inquiries occasionally are made regarding a method of calculating the protein, fat, or fiber content of a home-mixed feed. There are tables available, such as those in Morrison's book "Feeds and Feeding," which give the average chemical analysis of feed concentrates, roughage, and silages. It should be pointed out that the chemical analysis of a particular lot of an ingredient may be somewhat above or below the average figure shown in the table. This fact must be taken into consideration in fixing guarantees. The following example shows how the protein content of a feed mixture may be calculated.

Ingredients	pounds used	×	per cent protein in ingredient	=	lbs. protein furnished by ingredient
Ground Oats	200		12.0		24
Ground Corn	400		8.0		32
Gluten Feed	300		25.0		75
Wheat Bran	400		15.0		60
Linseed Oil Meal	100		34.0		34
Salt	10		.....		.....
Total Mix	1410 lbs.		contains		225 lbs. protein

$$\text{The mixture contains } \frac{225}{1410} \times 100 = 15.95\% \text{ protein.}$$

The percentage of fat or fiber may be calculated in a like manner by substituting the fat or fiber figures for those of the protein.

CONFORMITY TO THE GUARANTEES

The chemical analyses reported in this bulletin were made by methods approved by the Association of Official Agricultural Chemists.

Of the 710 samples analyzed, 61 were dry or canned cat and/or dog foods and 649 were ingredients and mixed feeds. Fifty-one brands were sampled two or more times during the year. Table I shows the percentage of samples analyzed in the thirty-year period 1926-1955 not conforming to guarantees. It is noted that the percentage is a little higher in 1955 than in the year previous. This is due to the selection of brands for sampling which was made with the intention of trying to clear up cases of previous deficiencies.

The percentage of samples not conforming to the guarantee is 10.3 per cent below guarantee in protein, 6.9 per cent below guarantee in fat, and 5.9 per cent exceeded the guarantee in crude fiber.

Table II lists the analyses of the brands of ingredients and mixed feeds other than the cat and dog foods which are listed in Table III.

A total of 94 samples represented brands that were not registered with the State Department of Agriculture at the time of sampling. This fact is indicated in the table.

Eighteen lots of feeds delivered in bulk were officially sampled. These are identified in the table.

TABLE I

PERCENTAGE OF SAMPLES ANALYZED IN YEARS 1926-1954 NOT CONFORMING TO GUARANTEES

Year	Per cent below guarantee in Protein		Per cent below guarantee in Fat		Per cent high in Crude Fiber
	Less than 0.5 per cent	0.5 per cent or more	Less than 0.25 per cent	0.25 per cent or more	
1926	8.0	16.0	4.0	10.0	6.0
1927	8.3	16.4	5.8	13.6	5.9
1928	9.1	20.7	4.3	9.3	7.9
1929	9.5	20.2	2.8	9.3	6.5
1930	4.8	13.1	4.0	8.0	3.9
1931	1.8	7.2	5.9	9.7	5.3
1932	1.8	1.4	5.0	8.1	2.8
1933	1.3	3.6	7.5	9.8	3.6
1934	3.0	3.4	3.9	7.1	9.8
1935	2.4	3.0	4.2	8.5	9.9
1936	2.9	5.2	5.5	8.3	12.2
1937	2.8	4.2	3.0	6.0	11.0
1938	2.9	8.1	9.8	10.8	11.5
1939	1.9	3.3	6.8	9.3	8.7
1940	2.9	4.0	6.2	6.7	7.5
1941	1.1	2.6	4.7	6.7	5.6
1942	2.6	3.5	3.7	4.5	7.4
1943	3.7	2.7	7.7	8.6	7.4
1944	8.2	9.0	10.7	19.7	6.9
1945	2.1	6.1	2.9	7.5	7.1
1946	8.6	17.5	2.3	8.9	14.6
1947	4.1	10.2	1.7	4.0	24.7
1948	3.6	3.8	2.3	3.5	13.6
1949	3.5	5.8	2.7	2.8	7.2
1950	4.9	7.3	4.9	5.1	3.2
1951	4.4	7.5	2.7	4.9	4.0
1952	4.3	8.4	3.0	5.8	4.3
1953	4.3	12.7	3.4	6.8	4.4
1954	2.7	6.1	1.7	3.5	3.8
1955	2.8	7.5	2.4	4.5	5.9

REQUEST BY INDIVIDUALS FOR THE ANALYSIS OF FEEDINGSTUFFS

In addition to the official samples of feedingstuffs submitted by the Feed Control Supervisor, the Agricultural Experiment Station each year analyzes some samples drawn by individuals to aid in solving a particular problem. Chemical analysis can aid in certain cases but it should not be expected to answer all questions. A close study of management practises will often answer many problems when the first thing to do seems to be to blame the feed for difficulties in growth or production of livestock. It is suggested that in the case of a difficulty involving feeding that you call in your County Agent, your veterinarian, or the fieldman of your feed supplier to consider your problem. They will then obtain the facts in the case and will determine whether an analysis of the feed will be of help or not.

If a feed sample is mailed or brought to the laboratory, it is essential that the sample drawn, about one pint put in a clean, tight container, *adequately represents* the large lot from which it is drawn and that *full information* concerning the case accompany the sample. If this is not done, it must be supplied before analysis can be made. Because of the cost of laboratory work and materials, the necessity for an analysis is decided upon the basis of information submitted and an opinion obtained as to whether or not an analysis is necessary in the particular case involved. Since this is a state experiment station, this service is available only to residents of the state and no charge is made for occasional work. Many questions that are raised may be satisfactorily answered by correspondence without laboratory work.

TABLE II — INGREDIENTS AND MIXED FEEDS

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Albers Milling Co. **Kansas City, Mo.**							
Albers Calf Manna	Manchester	25.00	26.1	3.50	4.1	5.50	4.8
Allied Mills, Inc. **Chicago, Ill.**							
+Economy Scratch Feed	Keene	9.00	11.2	2.00	2.8	5.00	3.2
June Pasture	W. Lebanon	10.00	14.8	0.50	1.9	26.00	17.4
Pure Corn and Oats Chop	W. Lebanon	9.00	10.9	3.50	4.0	10.00	5.5
Sugarine 16% Dairy Feed	Keene	16.00	18.5	2.50	4.3	12.00	9.2
Sulfaquinoxaline in Wayne Universal Grower (Krums)	Keene	16.00	17.9	2.50	4.0	4.50	4.5
Wayne 16% Dairy	Keene	16.00	18.7	3.00	3.6	9.00	7.0
+Wayne 20% Dairy	Keene	20.00	21.2	3.00	3.5	9.00	8.2
Wayne 26% Egg & Breeder (Pellets)	Keene	26.00	26.5	2.50	3.5	7.00	6.0
Wayne Egg Mash	Keene	20.00	22.3	3.00	3.8	5.50	5.5
Wayne Fitting Ration	Keene	13.00	15.0	3.00	4.5	8.50	7.2
Wayne Game Bird Grower	W. Lebanon	20.00	22.6	2.50	3.0	8.00	4.7
Wayne Growing Mash (Krums)	Keene	20.00	20.3	2.50	3.4	5.50	5.0
Wayne Horse Feed	W. Lebanon	9.00	11.2	2.50	3.4	12.00	7.4
Wayne Mash Layer	Keene	20.00	22.1	3.00	2.7	7.00	6.6
Wayne 16% Milk Producer	W. Lebanon	16.00	20.3	2.50	3.4	10.00	8.0
Wayne Pork Maker	Keene	14.00	14.9	3.00	3.7	8.00	5.4
Wayne Rabbit Ration	W. Lebanon	17.00	19.0	2.00	3.9	15.00	10.8
+Wayne Scratch Feed	Keene	9.00	10.4	2.00	2.4	5.00	1.6
Wayne Test Cow Ration	Keene	16.00	19.3	4.00	3.4	9.00	7.2
Wayne Turkey Fitting Ration	W. Lebanon	11.00	11.8	2.50	3.2	9.00	7.8
Wayne Universal Breeder (Krums)	W. Lebanon	16.00	18.0	2.50	3.6	4.50	4.8
+Wayne Universal Dairy Feed	W. Lebanon	14.00	17.0	3.00	3.7	9.00	9.3
Wayne Universal Egg	Keene	16.00	17.2	2.50	3.5	4.50	4.7
Wayne Universal Grower (Krums)	Keene	16.00	17.3	2.50	4.0	4.50	4.7
3 nitro - 4 - Hydroxyphenylarsonic Acid and Sulfaquinoxaline in Wayne Broiler Finisher (Krums)	Keene	18.00	19.8	3.00	4.1	4.50	3.6
3 nitro - 4 - Hydroxyphenylarsonic Acid and Sulfaquinoxaline in Wayne Rocket Broiler Feed (Krums)	Keene	20.00	20.3	3.00	3.8	4.00	4.0
Amber Milling Division of U.G.T.A. **Rush City, Minn.**							
Fullcream Wheat Standard Middlings with Mill Run not exceeding 8%	Bow	15.00	15.7	4.00	4.2	9.50	6.0
American Maize-Products Co. **Roby, Ind.**							
Cream of Corn Gluten Feed	N. Haverhill	23.00	24.8	2.00	4.0	9.50	7.6
Archer Daniels Midland Co. **Minneapolis, Minn.**							
Archer Quality 34% Protein Linseed Oil Meal Solvent Extracted	Manchester	34.00	37.0	0.50	1.0	10.00	8.6

* Protein and fat not less than, crude fiber not more than.
\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
E. R. Bacon Grain Co. **Chicago, Ill.**							
Bacon's Corn Gluten Feed	Manchester	23.00	**22.4**	2.00	3.6	10.00	7.7
E. W. Bailey Co. **Montpelier, Vt.**							
+Baileys Pennant Brand Ace-Hi Layer	Colebrook	16.00	16.6	3.50	3.8	4.50	3.9
Baileys Pennant Brand Calf Ration	Colebrook	15.00	16.1	3.00	3.3	7.00	6.3
Baileys Pennant Brand Complete Egg Ration (Pellets)	Colebrook	16.00	16.1	3.50	4.1	7.00	6.0
Baileys Pennant Brand Complete Grower (Pellets)	Colebrook	15.00	15.2	3.50	3.7	7.00	5.8
+Baileys Pennant Brand 16% Dairy Ration (Coarse)	Colebrook	16.00	16.0	3.25	3.4	10.00	8.7
Baileys Pennant Brand Coarse 16% Dairy Ration	N. Haverhill	16.00	16.6	3.00	2.8	10.00	7.8
Baileys Pennant Brand 18% Dairy Ration	Colebrook	18.00	**17.1**	3.25	3.4	9.00	8.0
Baileys Pennant Brand 20% Dairy Ration	Colebrook	20.00	20.0	3.25	3.5	9.00	9.4
Baileys Pennant Brand Coarse Fitting Ration	N. Haverhill	14.00	13.7	3.00	3.0	11.00	8.0
Baileys Pennant Brand Horse Feed	N. Haverhill	10.00	11.8	3.00	3.8	9.00	7.1
Baileys Pennant Brand Laying Mash	N. Haverhill	20.00	20.1	3.50	4.0	7.00	7.0
Baileys Pennant Brand Mo-Bulk	Colebrook	10.50	11.9	1.00	1.7	17.00	16.2
Baileys Pennant Brand Pig Feed	Colebrook	17.00	17.0	3.50	4.2	7.00	6.8
Baileys Pennant Brand Pig Feed	N. Haverhill	17.00	17.8	3.50	4.4	7.00	6.9
Baileys Pennant Brand Pig Grower	N. Haverhill	15.00	**14.3**	3.50	4.2	6.50	6.5
Baileys Pennant Brand Scratch Feed	N. Haverhill	9.00	10.8	2.00	3.4	4.00	3.5
Baileys Pennant Brand Special 14% Dairy Ration	Colebrook	14.00	15.1	3.25	3.7	10.00	8.3
Baileys Pennant Brand Special 16% Dairy Ration	Colebrook	16.00	16.5	3.25	3.8	10.00	8.8
Baileys Pennant Brand Special 16% Dairy Ration	N. Haverhill	16.00	17.9	3.25	**2.7**	10.00	8.1
+Baileys Pennant Brand Special 12% Pasture Ration	Colebrook	12.00	12.5	3.50	3.5	10.00	7.7
+Baileys Pennant Brand Sulfaquinoxaline in Pennant Complete Grower	Colebrook	15.00	15.0	3.50	3.3	7.00	5.4
Baileys Pennant Brand 32% Supplement	N. Haverhill	32.00	31.7	3.00	**2.2**	10.00	6.3
Baltimore Feed & Grain **Baltimore, Md.**							
B.B.L. Cod Milk O Lay (Breeder Mash)	Derry	20.00	21.0	3.50	4.5	7.00	5.1
B.B.L. High Energy Layer Breeder Mash	Derry	16.50	17.3	3.50	5.1	5.00	4.1
+Oxytetracycline - Nitrophenide in BBL Pepetts	Derry	20.00	20.2	3.00	4.4	5.00	4.8

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Sulfaquinoxaline in B.B.L. Weight Maker	Derry	20.00	21.0	3.50	3.8	5.00	3.6
The Beacon Milling Co., Inc. **Cayuga, N. Y.**							
Auburn "14"	Dover	14.00	16.0	3.00	3.4	10.00	7.0
Auburn "16"	Dover	16.00	17.2	3.00	4.1	10.00	6.8
Auburn "20"	Dover	20.00	21.9	3.00	3.2	10.00	6.7
Be-Co-Lass	Dover	11.00	12.3	2.00	2.6	13.00	11.2
+Beacon "16"	Dover	16.00	17.2	3.50	3.6	9.00	7.1
Beacon Balancer Pellets	Nashua	20.00	20.5	3.00	3.8	6.00	4.6
Beacon Breeder All Mash	Manchester	17.00	18.8	4.75	5.6	5.00	3.9
Beacon Breeder Mash	Nashua	22.00	22.6	3.00	4.4	5.75	4.5
Beacon Chlortetracycline Mix	Nashua	20.00	20.7	3.00	3.9	5.75	5.4
Beacon Complete Starter	Dover	22.00	23.4	4.00	5.0	5.50	4.6
Beacon Dairy Fitting	Barrington	14.00	15.8	3.25	3.7	9.00	7.5
Beacon "22" Egg Mash	Nashua	22.00	22.2	3.00	4.1	5.75	4.4
Beacon "18" Growing Mash	Nashua	18.00	19.1	3.50	4.0	6.25	5.2
+Beacon Horse Feed	Dover	13.00	14.0	3.00	4.1	9.00	7.6
Beacon Notrosal Mix in Beacon Broiler Finisher	Dover	18.00	20.3	3.00	4.2	4.75	4.0
Beacon Nitrosal Mix in Beacon Starter Broiler	Dover	23.00	23.6	4.50	5.2	4.75	3.8
+Beacon Special Scratch Grains	Manchester	9.00	9.8	2.00	2.8	5.00	3.4
Beacon Starter Broiler	Dover	23.00	23.4	4.50	5.4	4.75	4.0
Beacon "18" Test Cow Ration	Dover	18.00	19.6	4.00	4.0	9.00	7.2
Beacon Worm Mash	Nashua	20.00	21.4	3.00	4.2	5.75	4.9
The Borden Co. **350 Madison Ave., New York, N. Y.**							
Flaydry Poultry Feed Supplement	Bow	24.00	29.3	2.00	2.7	6.50	4.8
Canada Starch Co. **Toronto, Canada**							
Edwardsburg Corn Gluten Feed	Bow	23.00	24.8	2.50	3.7	10.00	8.7
Cargill, Inc. **Minneapolis, Minn.**							
Cargill Inc. 44% Protein Solvent Extracted Soybean Oil Meal	Colebrook	44.00	44.5	0.50	1.0	7.00	5.6
Car-O-Green, Inc. **Kansas City, Mo.**							
Car-O-Green Dehydrated Alfalfa Granules '56	Keene	17.00	20.2	1.50	3.1	27.00	20.1
Central Soya Co., Inc. **Fort Wayne, Ind.**							
Central Star Brand Solvent Extracted Soybean Oil Meal	N. Haverhill	44.00	45.6	0.50	0.7	7.00	5.9
Central Star Brand 44% Solvent Extracted Soybean Oil Meal	Suncook	44.00	46.8	0.50	0.8	7.00	5.5

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Citrus Feed Co. **Lakeland, Fla.**							
Fosgate's Ace High All Sweet Dried Citrus Pulp	Bow	6.00	5.5	3.00	3.2	11.00	9.7
Clinton Foods, Inc. **Auburndale, Fla.**							
McDonald Brand Dried Citrus Pulp	Laconia	6.00	5.8	2.50	2.6	15.00	9.9
McDonald Brand Dried Citrus Pulp	Colebrook	6.00	6.0	2.50	3.8	15.00	10.3
Cocke and Co. **Atlanta, Ga.**							
Cocke-Shure Brand Prime Quality 41% Protein Cottonseed Meal	Concord	41.00	42.9	3.00	4.4	14.00	11.3
The Connecticut Grain Co. **Lowell, Mass.**							
+Dried Brewers Grain	Dover	26.00	27.2	6.00	6.5	15.00	12.4
Consolidated Rendering Co. **Boston, Mass.**							
Corenco 45% Meat & Bone Scrap	Concord	45.00	48.5	6.00	8.5		
Corenco 45% Meat & Bone Scrap	Potter Place	45.00	45.0	6.00	11.4		
Corenco 45% Meat & Bone Scrap	Keene	45.00	49.4	6.00	8.8		
Corenco 45% Meat & Bone Scrap	Manchester	45.00	46.3	6.00	10.9		
Corenco 45% Meat & Bone Scrap	Bow	45.00	47.6	6.00	10.0		
Corn Products Refining Co. **New York, N. Y.**							
Buffalo Brand 21% Protein Corn Gluten Feed	Bow	21.00	22.2	1.00	1.9	10.00	9.8
Diamond Brand Corn Gluten Meal	Bow	41.00	43.1	1.00	2.6	6.00	5.5
Chas. M. Cox Co. **Boston, Mass.**							
Chlortetracycline in Wirthmore Quickies	Nashua	20.00	21.9	3.00	3.0	4.50	3.7
Provender	Littleton	9.00	9.9	3.00	3.8	8.00	4.8
Sulfaquinoxaline Mixture in Wirthmore Improved Hi-Ener-G Starter and Broiler Ration	Lisbon	20.00	21.9	3.00	3.2	4.00	3.2
Sulfaquinoxaline-Sodium Arsanlate in Wirthmore Improved Hi-Ener-G Starter and Broiler Ration	Winchester	20.00	22.2	4.00	5.6	4.00	3.0
Sulfaquinoxaline in Wirthmore Turkey Starter Ration (Crumbles)	Nashua	28.00	27.4	3.00	3.2	5.50	4.9
Wirthmore Calving Ration w/Pellets	Winchester	14.00	15.6	3.50	3.8	10.00	8.2
Wirthmore Challanger Coarse 12 Dairy Ration	Winchester	12.00	14.7	2.00	3.4	12.00	7.7
Wirthmore Challanger Coarse 14 Dairy Ration	Winchester	14.00	16.3	3.00	4.0	12.00	7.7
Wirthmore Challanger Coarse 16 Dairy Ration	Conway	16.00	15.6	3.00	4.1	12.00	7.4

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Chas. M. Cox (continued)							
Wirthmore Challanger 16 Dairy Ration	Winchester	16.00	17.5	3.00	3.2	10.00	7.7
Wirthmore Challanger 18 Dairy Ration	Lisbon	18.00	21.4	3.00	3.0	10.00	8.0
Wirthmore Complete Breeder (Pellets)	Hillsboro	15.00	17.4	3.00	4.5	6.00	4.5
Wirthmore Complete Egg Ration	Conway	15.00	15.9	3.00	3.5	6.00	4.5
Wirthmore Complete Growing Ration	Winchester	15.00	16.5	3.00	3.4	6.00	4.4
Wirthmore 14 Dairy Fitting Ration	Littleton	14.00	16.9	3.50	3.8	9.00	6.4
Wirthmore 16 Dairy Ration	Littleton	16.00	19.2	3.50	3.6	9.00	6.9
Wirthmore 20 Dairy Ration	Winchester	20.00	21.4	3.50	3.7	9.00	7.6
Wirthmore 20 Dairy Ration	Littleton	20.00	23.5	3.50	3.3	9.00	6.3
Wirthmore 20 Dairy Ration	Conway	20.00	20.0	3.50	4.1	9.00	6.5
Wirthmore 16 Dairy Record Ration	Conway	16.00	18.1	3.50	3.9	9.00	6.8
Wirthmore Fattening Pellets	Lisbon	17.50	20.8	3.00	3.2	4.50	3.6
Wirthmore 14 Fitting Ration	Conway	14.00	15.3	3.50	4.0	9.00	6.6
Wirthmore Fodder Greens	Lisbon	9.00	11.4	2.00	2.3	18.00	13.5
Wirthmore Growing Mash	Nashua	18.00	19.4	3.00	4.5	5.50	4.2
Wirthmore Hi-Ener-G Breeder	Nashua	16.00	17.5	3.50	4.8	4.50	3.7
Wirthmore Hi-Ener-G Grower	Conway	16.00	16.6	3.00	3.6	4.50	3.6
Wirthmore Hi-Energ-G Layer	Conway	16.00	16.9	3.00	3.5	4.50	3.5
Wirthmore Hi-Energ-G Layer (Pellets)	Conway	16.00	17.2	3.00	3.6	4.50	3.3
Wirthmore Hog Grower	Winchester	15.00	15.8	4.00	5.0	6.00	6.0
Wirthmore Horse Feed	Conway	10.00	12.9	3.25	3.4	9.00	6.9
Wirthmore Intermediate Scratch Feed	Nashua	9.50	10.0	2.50	4.6	4.00	3.6
Wirthmore Laying Mash	Nashua	20.00	21.4	3.50	4.6	5.50	4.4
Wirthmore Meatless Mink Food	Nashua	18.00	19.6	3.00	6.0	6.00	5.0
Wirthmore Mornin' Call Scratch Feed	Winchester	9.50	10.3	2.50	3.5	4.00	3.4
Wirthmore Pig and Sow Feed	Conway	17.00	18.4	3.50	3.7	8.00	6.2
Wirthmore PN Mixture	Lisbon	17.50	19.2	3.00	3.5	4.50	3.7
Wirthmore PN Mixture in a Poultry Mash Base	Nashua	17.50	19.2	3.50	4.1	4.50	3.8
Wirthmore Poultry Fitting	Nashua	12.00	14.3	3.00	3.1	7.00	5.2
Wirthmore Rabbit Pellets	Conway	17.00	18.1	3.50	4.4	12.00	8.6
Wirthmore 18 Record Ration	Hillsboro	18.00	19.6	3.50	4.1	9.00	8.2
Wirthmore Scratch Feed	Lisbon	9.50	10.9	2.50	2.9	4.00	3.5
Wirthmore Sheep & Goat Ration (Pellets)	Conway	16.00	17.2	3.50	4.2	9.00	6.9
Wirthmore Stock Feed	Winchester	10.00	10.1	3.00	3.5	11.00	10.1
Wirthmore Super Pellets	Nashua	20.00	20.0	3.50	4.5	5.50	4.4
Wirthmore Turkey Fattening Ration	Nashua	16.00	17.0	3.00	3.3	6.50	4.9
Wirthmore Turkey Growing Ration	Nashua	20.00	17.7	3.00	4.6	6.50	5.1
Wirthmore Twin Mix Calf Ration	W. Stewartstown	17.00	16.6	3.00	3.9	8.00	6.2

* Protein and fat not less than, crude fiber not more than.

+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Delaware Mills, Inc. Deposit, N. Y.							
+Delaware Chick Grains	Farmington	9.00	9.6	1.50	1.8	4.00	1.2
Delaware Chlortetracycline (Aureomycin) Mixture (Delamycin)	Farmington	20.00	22.7	3.00	3.4	5.00	6.4
+Delaware Complete Layer and Breeder	Farmington	16.50	18.8	2.50	3.4	6.50	7.0
+Delaware Complete Layer and Breeder	Farmington	16.50	23.7	2.50	3.3	6.50	7.5
+Delaware Complete Starter and Grower	Farmington	17.00	18.1	2.50	3.5	6.50	7.1
Delaware Fitting Ration	Farmington	14.00	14.3	3.00	3.3	11.00	10.3
+Delaware Flushing Mash	Farmington	11.00	13.1	2.00	3.2	5.00	4.9
+Delaware H.E. Layer and Breeder	Farmington	16.50	17.5	3.00	3.4	4.50	5.5
Delaware Horse Feed	Farmington	9.00	10.3	2.00	3.2	11.00	8.6
Delaware Poultry Fitting Ration	Farmington	10.00	11.2	2.50	2.6	8.00	5.8
+Delaware Scratch Grains	Farmington	9.00	9.2	2.00	2.5	5.00	2.1
Delaware Sulfaquinoxaline in Broiler Mash	Farmington	22.00	22.2	3.00	3.3	4.50	4.1
Delaware Sulfaquinoxaline Mixture (Delquinox)	Farmington	20.00	21.1	3.00	3.9	5.00	5.9
+Delaware 18% Test Ration	Farmington	18.00	19.0	4.00	4.0	9.00	9.0
Delaware Turkey Starter	Farmington	28.00	28.9	2.50	3.3	5.00	4.3
Delphos Grain & Soya Products Co. Delphos, Ohio							
+44% Protein Soybean Oil Meal Solvent Extracted	Manchester	44.00	45.2	0.50	1.4	7.00	6.9
Dietrich & Gambrill, Inc. Frederich, Md.							
+D & G Turkey Growing Mash (Pellets)	Laconia	20.00	21.2	3.00	3.8	8.00	6.6
Frederick 16% Dairy	Brentwood	16.00	18.2	2.50	3.1	11.00	10.6
**Frederick 16% Dairy	Brentwood	16.00	17.4	2.50	2.5	11.00	10.3
Gambrills Laying Mash (Pellets)	Laconia	20.00	19.7	3.00	4.4	7.00	6.8
Dougherty Feed Co., Inc. Louisville, Ohio							
Palmo Midds	Bow	15.00	15.7	8.00	11.9	8.00	6.9
Dow Brewery Limited Montreal 3, Quebec, Canada							
+Dried Brewers Grains	Keene	22.00	26.9	7.00	8.1	15.00	13.5
+Dried Brewers Grains	N. Haverhill	22.00	22.0	7.00	7.1	15.00	17.1
Eastern States Farmers Exchange, Inc. W. Springfield, Mass.							
Eastern States All-Mash Breeder	Manchester	15.50	15.6	3.00	3.6	4.50	3.6
Eastern States All-Mash Developer	Woodsville	16.00	17.7	4.00	5.1	4.50	3.7
Eastern States All-Mash Producer	Claremont	15.50	16.8	2.50	4.1	4.50	4.0
Eastern States Breeder Mash (Pellets)	Manchester	22.00	20.8	2.50	3.7	4.50	4.5

* Protein and fat not less than, crude fiber not more than.

** Bulk.

+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Eastern States Farmers Exchange (continued)							
Eastern States Calf Starter	Claremont	20.00	22.8	3.00	3.2	6.00	5.0
Eastern States Calving Ration	Woodsville	9.50	11.2	1.50	1.8	15.00	11.2
Eastern States Champion	Manchester	14.00	15.2	2.50	2.6	7.00	5.9
Eastern States Champion	Claremont	14.00	16.5	2.50	2.5	7.00	6.1
Eastern States Class Leader	Claremont	14.00	14.4	4.00	4.3	9.00	7.1
Eastern States Finisher	Claremont	16.00	17.2	2.50	4.1	4.50	3.5
Eastern States Fulpail	Woodsville	20.00	22.6	4.00	4.0	9.50	7.2
Eastern States Milkmore	Manchester	16.00	17.0	4.00	4.4	9.00	8.0
Eastern States Milk Saver	Claremont	24.00	26.7	1.00	1.5	1.00	0.4
Eastern States Nitrophenide Mixture included in All-Mash Developer-WN	Manchester	16.00	16.8	4.00	4.9	4.50	3.5
Eastern States Nitrophenide Mixture included in Pacemaker (Pellets)	Manchester	20.00	21.3	5.50	5.9	4.50	3.4
Eastern States Pig Primer	Manchester	16.00	16.7	3.00	4.0	5.50	4.7
Eastern States Pork Builder	Claremont	14.00	17.6	3.00	4.2	4.00	3.7
Eastern States Producer	Manchester	22.00	22.4	2.50	3.0	4.50	4.2
Eastern States Scratch Grains	Claremont	9.00	10.9	2.00	4.0	4.00	2.7
Eastern States Sulfaquinoxaline & Chloratetracycline in Minute Man	Claremont	20.00	21.3	4.00	4.7	4.50	3.8
Eastern States Sulfaquinoxaline - Chloratetracycline Mixture in Minuteman (Pellets)	Manchester	20.00	21.4	4.00	4.8	4.50	3.8
Eastern States 36% Supplement	Manchester	36.00	36.6	1.50	2.6	9.00	7.9
Eastern States Sweepstakes	Claremont	16.00	18.4	3.50	4.0	8.00	6.6
Elm City Grain Co.							
Keene, N. H.							
Elm Tree All Mash Grower	Keene	16.00	15.2	3.50	3.8	5.50	5.4
Elm Tree All Mash Grower	Keene	16.00	15.8	3.50	3.5	5.50	5.3
Elm Tree All Mash Laying	Keene	16.00	17.0	3.50	3.6	7.00	6.0
Elm Tree Breeder Mash	Keene	20.00	19.4	4.00	3.9	8.00	6.2
Elm Tree Dairy Feed	Keene	18.00	18.1	3.50	3.1	11.00	8.9
Elm Tree Dairy Feed	Keene	18.00	19.2	3.50	3.5	11.00	9.8
Elm Tree 16% Dairy Feed	Keene	16.00	16.8	3.50	2.8	11.00	8.6
Elm Tree 14% Fitting Ration	Keene	14.00	13.2	3.50	2.7	11.00	8.5
Elm Tree 14% Fitting Ration	Keene	14.00	14.9	3.50	2.8	11.00	8.9
Elm Tree Growing Mash	Keene	18.00	18.7	3.50	3.7	8.00	5.8
Elm Tree Hi-Eff Breeder	Keene	16.00	16.3	3.50	4.1	5.00	5.3
Elm Tree Hi-Eff Grower	Keene	15.00	15.6	3.50	3.6	5.50	6.2
Elm Tree Hi-Lo Starter & Broiler	Keene	20.00	22.2	3.50	3.6	4.50	4.2
Elm Tree Hi-Lo Starter & Broiler	Keene	20.00	22.6	3.50	3.7	4.50	4.2
Elm Tree Laying Mash	Keene	20.00	20.1	3.50	3.5	7.50	6.4
Elm Tree Laying Mash	Keene	20.00	20.8	3.50	3.6	7.50	6.9
Elm Tree Pig and Hog Feed	Keene	14.00	16.1	4.00	3.9	10.00	6.8
Elm Tree Poultry Fitting	Keene	10.00	11.2	3.00	3.6	9.00	6.1
Elm Tree Provender	Keene	10.00	10.8	3.50	3.9	8.00	6.1
Elm Tree Scratch	Keene	9.00	11.1	3.00	3.2	4.50	2.7

* Protein and fat not less than, crude fiber not more than.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Elmore Milling Co.							
Oneonta, N. Y.							
Elmore Complete Growing Ration	Jaffrey	15.00	17.1	3.00	4.1	5.00	3.8
Elmore Complete Market Egg Mash	Jaffrey	15.50	16.0	3.00	4.3	6.00	4.9
Elmore Complete Rabbit Ration (Pellets)	Jaffrey	16.00	21.5	2.50	4.2	10.00	8.5
Elmore Dry and Freshening Ration	Laconia	12.00	15.5	4.00	4.3	9.00	8.2
Elmore Egg Mash	Jaffrey	20.00	20.1	2.50	3.9	6.00	4.5
Elmore Fitting Ration	Jaffrey	14.00	16.2	4.00	4.6	8.00	7.3
Elmore Fitting Ration	Laconia	14.00	16.7	4.00	4.5	8.00	7.9
Elmore Horse Feed	Jaffrey	9.00	11.1	3.00	3.0	11.00	4.5
Elmore Milk Grains "Sixteen"	Jaffrey	16.00	20.3	4.00	4.4	9.00	8.5
Elmore Pacemaker 16% Dairy Ration	Jaffrey	16.00	17.4	2.50	4.4	10.00	9.6
Elmore Pacemaker 16% Dairy Ration	Laconia	16.00	23.4	2.50	3.2	10.00	9.7
Elmore Pacemaker Fitting Ration	Laconia	14.00	21.9	3.00	3.4	9.00	8.6
Elmore Pacemaker Fitting Ration	Laconia	14.00	22.3	3.00	3.5	9.00	8.7
Elmore Pure Ground Corn and Oats	Jaffrey	10.00	10.7	3.50	4.1	7.00	5.7
Elmore Sulfaquinoxaline Mixture in Elmore Chicksaver	Jaffrey	20.00	20.1	3.00	3.5	5.00	4.1
+Emco Scratch Feed	Jaffrey	9.00	9.9	2.50	2.8	7.00	3.2
J. W. Eshelman & Sons							
Lancaster, Pa.							
Eshelman Pennsy 16 Dairy	Keene	16.00	18.8	3.00	3.3	15.00	9.7
Eshelman Red Rose Breeder Mash	Keene	20.00	21.1	3.50	4.6	5.50	5.8
Eshelman Red Rose Calf Grower	Keene	14.00	15.7	3.00	4.0	8.50	7.8
Eshelman Red Rose Horse Feed	Keene	9.00	10.4	3.00	3.4	10.00	6.0
Eshelman Red Rose Rabbit Pellets	Keene	18.00	20.2	3.00	4.0	12.00	8.7
Farmers Grain & Feed Co.							
Morrisville, Vt.							
Fortress 16% Dairy	N. Haverhill	16.00	17.9	3.00	3.6	9.00	6.9
Fortress 18% Dairy	Colebrook	18.00	17.7	3.00	4.1	9.00	8.0
Fortress 18% Dairy	Lebanon	18.00	18.4	3.00	4.0	9.00	7.9
Fortress Fitting Ration	N. Haverhill	14.00	15.1	3.00	3.2	9.00	6.7
Florida Citrus Canners Co-op.							
Lake Wales, Florida							
Lake Wales Dried Citrus Pulp	Exeter	6.00	6.1	3.00	3.0	16.00	14.7
Fowler Bros.							
Suncook, N. H.							
Sun Valley Dairy Ration	Suncook	16.00	17.7	3.50	2.9	10.00	7.7
General Mills, Inc.							
Minneapolis, Minn.							
Arsonic Growth Stimulant in Sure-broiler Finisher	Exeter	18.00	19.4	2.50	4.5	4.50	4.2
Gold Medal 20% Breeder Mash	Nashua	20.00	21.5	2.50	4.8	9.00	7.4
Gold Medal Complete Layer Mash	Nashua	16.00	17.1	2.50	4.3	8.00	7.4
Gold Medal 16% Dairy Feed	Nashua	16.00	17.8	2.50	3.6	10.00	9.0
Gold Medal 20% Dairy Feed	Exeter	20.00	22.3	2.50	2.7	10.00	8.3
Gold Medal 14% Fitting Ration	Exeter	14.00	14.7	2.50	3.2	12.00	9.4

* Protein and fat not less than, crude fiber not more than.
+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
General Mills (continued)							
Gold Medal Green Rabbit Pellets	Exeter	15.00	14.8	3.00	3.7	16.00	15.7
Gold Medal Green Rabbit Pellets	Nashua	15.00	16.7	3.00	4.1	16.00	14.4
Gold Medal Hi-Efficiency Complete Breeder Mash	Nashua	16.00	16.7	3.50	5.1	5.00	4.9
Gold Medal Hi-Efficiency Complete Grower Mash	Exeter	16.00	15.3	3.00	4.3	5.00	5.0
Gold Medal 20% Layer Mash	Exeter	20.00	20.4	2.50	3.7	8.00	7.2
Gold Medal Scratch Feed	Exeter	9.50	10.1	2.50	3.4	5.00	2.8
+Gold Medal Scratch Feed	Nashua	9.50	10.6	2.50	3.1	5.00	4.0
Gold Medal Sweet Feed	Nashua	9.00	10.8	3.00	3.0	10.00	7.4
Larro Antibiotic and Furazolidone Mix in Poultry Surelift	Exeter	22.00	22.2	2.50	3.3	7.00	5.0
Larro Chick Grain	Exeter	8.00	9.7	2.00	2.5	4.00	1.2
Larro Nitrofurazone Mixture with Arsonic Growth Stimulant in Gold Medal Super Broiler Finisher	Exeter	18.00	18.2	2.50	3.6	5.00	3.4
Larro Nitrofurazone with Arsonic Growth Stimulant in Larro Surebroiler Starter	Exeter	20.00	20.3	2.50	3.4	4.50	3.8
Larro Nitrofurazone with Arsonic Growth Stimulant in Surebroiler 38 Starter	Exeter	38.00	40.2	1.50	3.2	7.50	5.2
Larro Nitrofurazone Mix in Surechick	Exeter	20.00	21.2	3.00	4.1	6.00	5.7
Larro Poultry Sure Hatch Complete (Hi Energy)	Exeter	16.00	17.7	2.50	4.1	5.00	4.9
Larro Poultry Sure Hatch "Hi Energy"	Exeter	20.00	22.2	2.50	3.9	7.00	4.9
Larro Scratch Grains	Nashua	8.00	9.6	2.00	2.7	5.00	3.0
Larro Scratch Grains	Exeter	8.00	9.6	2.00	2.8	5.00	2.9
Larro Sure Chick	Exeter	20.00	20.4	3.00	3.8	6.00	4.7
Larro Surelay "H-E"	Exeter	20.00	21.2	2.50	4.3	7.00	5.6
Larro Surelay "Hi-Energy"	Nashua	20.00	20.2	2.50	4.2	7.00	5.5
Larro Surelay "Hi-Energy"	Exeter	20.00	20.0	2.50	4.1	7.00	5.4
Larro Suremilk 14	Exeter	14.00	15.4	2.50	3.6	12.00	7.4
Larro Suremilk 16	W. Stewartstown	16.00	17.1	2.50	3.4	12.00	7.6
+Larro Suremilk 16 Pelleted	Keene	16.00	18.4	2.50	3.6	12.00	7.2
+Larro Suremilk 16 Pelleted	Exeter	16.00	17.2	2.50	3.2	12.00	6.9
Larro Suremilk 20	Nashua	20.00	22.6	2.50	3.6	12.00	8.2
Larro Suremilk 20	Exeter	20.00	23.0	2.50	2.9	12.00	8.2
Larro Surepork Complete	Exeter	15.00	16.2	3.00	3.8	6.00	4.6
Nitrofurazone Mixture with Arsonic Growth Stimulant in Gold Medal Hi-Efficiency Broiler Mash	Exeter	20.00	20.0	3.00	4.1	4.00	3.5
Nitrofurazone with Arsonic Growth Stimulant in Surebroiler Finisher	Exeter	18.00	19.3	2.50	3.8	4.50	3.6
Nitrofurazone Mixture in Gold Medal Grower Mash	Nashua	18.00	19.4	2.50	4.1	8.00	6.8

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
General Mills (continued)							
Washburn's Gold Medal Wheat Adrian Red Dog	Claremont	16.00	17.7	3.50	3.9	4.00	2.9
Washburn's Gold Medal Wheat Adrian Red Dog	Littleton	16.00	17.3	3.50	4.5	4.00	3.9
Washburn's Gold Medal Wheat Bran w/GWS	Dover	14.00	16.0	3.50	4.5	12.00	9.7
The Glidden Co. Chicago, Ill.							
Glidden Quality Products 44% Protein Solvent Extracted Soybean Oil Meal	Manchester	44.00	46.8	0.50	1.6	7.00	6.2
D. H. Grandin Milling, Co. Jamestown, N. Y.							
+Grandins Big 4 Scratch Grains	Barrington	9.00	10.7	2.50	3.6	5.00	4.2
+Grandins Calf Starter	Keene	18.00	**16.3**	3.00	3.0	10.00	7.6
Grandins 14 Fitting Ration	Keene	14.00	14.6	3.00	3.4	10.00	7.6
+Grandins Horse Feed	Barrington	9.00	11.1	3.00	3.7	11.00	7.1
+Grandins Peerless 18% Lairy Feed	Barrington	18.00	**17.0**	3.00	3.8	11.00	10.6
+Grandins Pork Maker	Barrington	15.00	19.0	3.00	4.9	5.00	5.8
+Grandins Rabbit Pellets	Barrington	14.00	15.3	2.00	4.4	18.00	10.3
+Grandins Start-To-Finish Mash	Barrington	20.00	21.9	2.50	4.8	5.00	**6.7**
+Grandins 16 Test Ration	Barrington	16.00	16.7	3.00	3.8	10.00	8.2
+Grandins Twin Six Dairy Feed	Barrington	16.00	16.2	3.00	4.0	10.00	8.0
Hales & Hunter Company Chicago, Ill.							
Gold Flake Dairy 16	Lebanon	16.00	16.8	3.00	3.1	10.00	8.3
Pioneer Dry & Freshening	Lebanon	12.00	13.4	2.50	3.3	9.00	6.6
Pioneer Pelleted Flaked 15 Dairy	Lebanon	15.00	15.8	3.50	3.3	9.00	5.8
Pioneer 16 Dairy	Lebanon	16.00	16.5	3.00	3.1	9.00	6.6
Pioneer 18 Dairy	Lebanon	18.00	**17.0**	3.00	3.2	9.00	6.7
Red Comb Egg Mash	Lebanon	20.00	20.0	3.00	4.6	7.00	5.4
Harper Feed Mills Inc. Washington, Pa.							
Chlortetracycline and Sulfaquinoxaline in Harco Respirtone	Derry	20.00	22.7	3.00	4.2	4.50	3.7
Harco Breeder Mash	Derry	22.00	23.9	3.00	3.8	6.00	6.2
Harco 16% Dairy Ration	Derry	16.00	20.5	3.00	3.8	11.00	10.3
Harco Flock Booster Pellets	Derry	28.00	29.5	3.00	3.6	5.50	4.7
Harco Growing Mash (Pelleted)	Derry	18.00	20.8	3.00	4.0	6.00	6.0
Harco Hi-Energy Broiler Mash	Derry	20.00	19.8	3.00	4.8	4.50	3.5
Harco Hi-Energy Complete Breeder Ration	Derry	18.00	**17.4**	3.00	4.0	5.50	5.0
Harco Hi-Energy Finisher Pellets	Derry	18.00	20.5	3.00	4.4	5.00	4.6
+Harco Laying & Breeder Mash	Derry	20.00	23.5	3.00	3.9	6.00	6.5
Harco Laying Mash	Derry	20.00	20.7	3.00	4.5	6.00	5.6
Harco Poultry Fitting Ration	Derry	9.00	19.2	3.00	3.0	11.00	5.5
Harco Special Short Feed Station Fattener (Pellets)	Derry	15.00	18.0	3.00	4.1	6.00	5.4

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Harper Feed Mills (continued)							
Harco Special Short Feed Station Fattener (Pellets)	Derry	15.00	18.1	3.00	3.9	6.00	5.4
+Harco Worming Ration (Pellets)	Derry	18.00	21.1	3.00	4.0	4.50	3.9
+Sulfaquinoxaline in Harco Hi-Energy Broiler Mash	Derry	20.00	19.7	3.00	4.4	4.50	3.6
+Sulfaquinoxaline in Harco Hi-Energy Broiler Mash (Krumbles)	Derry	20.00	20.7	3.00	3.6	4.50	3.6
+Top Profit Range Growing Mash	Derry	18.00	23.1	3.00	3.6	8.00	5.6
+Top Profit Scratch Grains	Derry	9.00	9.9	2.00	2.5	5.00	2.4
.005% 3 - Nitro - 4-Hydroxyphenylarsonic Acid in Harco Chick Starting Mash	Derry	20.00	24.0	3.00	4.6	5.00	4.3
+.005% 3-Nitro-4 Hydroxlphenylarsonic Acid in Harco Hi-Energy Broiler Mash	Derry	20.00	21.0	3.00	4.6	4.50	3.6
Hayward Inc. **Oak Arbor, Ohio**							
+Haywards Dehydrated Alfalfa Meal	Concord	17.00	19.9	1.75	3.1	27.00	20.1
W. L. Hogg Ltd. **Montreal, P. Q., Canada**							
+Barley Feed	Keene	10.50	9.8	2.00	2.3	11.00	10.6
H. P. Hood & Sons **Boston, Mass.**							
Hoods Calf Starter	Lancaster	28.00	30.00	3.00	3.0	4.00	2.5
E. C. & W. L. Hopkins, Inc. **Greenfield, N. H.**							
Granite State Booster Chlortetracycline (Aureomycin) Mixture	Nashua	20.00	20.9	3.00	4.8	4.00	3.8
Granite State Breeder Mash	Greenfield	20.00	21.0	3.00	4.6	7.50	7.2
Granite State Broiler Mash	Greenfield	20.00	20.0	3.50	4.2	4.50	3.6
Granite State Complete Mash	Hillsboro	15.00	16.3	3.00	4.5	7.00	5.6
Granite State 16% Dairy Feed	Hillsboro	16.00	16.9	3.50	4.0	9.00	6.6
Granite State 20% Dairy Feed	Hillsboro	20.00	20.6	4.00	3.3	10.00	6.6
Granite State Dog Food	Greenfield	23.00	24.0	4.00	5.2	5.00	4.4
Granite State Egg Mash	Hillsboro	20.00	21.0	4.00	4.0	7.50	7.0
Granite State Fitting Ration (Coarse)	Hillsboro	14.00	16.2	3.00	3.7	8.00	7.0
Granite State Growing Mash	Hillsboro	19.00	20.9	3.00	4.6	8.00	7.1
Granite State High Energy Complete Breeder Mash	Greenfield	16.00	17.1	3.00	5.0	4.00	3.5
Granite State High Energy Complete Growing Mash	Greenfield	16.00	17.0	3.00	4.8	4.00	3.7
Granite State High Energy Complete Laying Mash	Hillsboro	16.00	17.2	3.00	4.8	4.00	4.3
Granite State High Energy Complete Laying Mash	Greenfield	16.00	17.3	3.00	5.1	4.00	3.9
Granite State Hog Ration	Greenfield	17.50	19.1	3.00	5.4	7.00	5.9

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
E. C. & W. L. Hopkins (continued)							
Granite State Horse Feed	Greenfield	10.00	11.6	3.00	3.0	8.00	5.7
Granite State Scratch Grains	Nashua	10.00	10.1	3.00	3.1	5.00	3.3
Granite State Scratch Grains	Hillsboro	10.00	10.0	3.00	3.0	5.00	2.6
Granite State Stock Feed	Hillsboro	7.50	10.6	2.50	6.0	10.00	6.0
Provender	Greenfield	9.00	8.7	2.50	3.9	10.00	8.4
Sulfaquinoxaline - Arsanilic Acid Mixture in Granite State Broiler Mash	Nashua	20.00	20.9	3.50	4.4	4.50	3.7
Illinois Cereal Co. **Paris, Ill.**							
Hominy Feed	Concord	10.00	12.7	5.00	7.3	5.00	5.0
International Milling Co. **Minneapolis, Minn.**							
Blackhawk Wheat Bran	W. Stewartstown	15.00	16.2	2.50	4.9	12.00	9.3
+Blackhawk Wheat Germ Meal	Concord	25.00	25.8	9.00	9.4	4.00	3.3
Blackhawk Wheat Standard Middlings with Ground Mixed Screenings not Exceeding Mill Run	Manchester	15.00	16.2	3.00	4.9	9.50	9.0
+Lucky Wheat Bran with Ground Mixed Screenings not exceeding 8%	Bow	13.50	15.9	2.50	4.1	12.00	10.5
Target Wheat Red Dog	W. Lebanon	15.00	18.4	2.00	4.1	4.00	4.6
Ralph P. Johnson & Son **Potter Place, N. H.**							
Johnson Complete Laying Mash	Potter Place	15.00	16.7	3.00	4.2	8.00	5.6
Johnson Dairy Feed	Potter Place	16.00	18.5	3.00	3.1	9.00	7.8
Johnson Growing Mash	Potter Place	14.00	17.1	3.00	4.5	7.00	5.4
Johnson Laying Mash	Potter Place	18.00	20.0	4.00	4.1	8.00	5.4
Johnson Pig & Hog Feed	Potter Place	15.00	18.3	2.00	3.9	7.00	6.1
Keystone Dehydrators **Nazareth, Pa.**							
Keystone Dehydrated Super Green Alfalfa Meal	Bow	17.00	18.5	2.00	2.5	27.00	19.6
Chas. A. Krause Milling Co. **Milwaukee, Wis.**							
Badger Yellow Hominy Feed	Colebrook	10.00	11.0	5.00	6.8	6.00	4.2
Kudar Pulp Sales Co. **Lake Alfred, Fla.**							
Kudar Dried Citrus Pulp High Sugar	Lisbon	6.00	6.0	5.00	4.2	13.00	11.5
Lake of the Woods **Montreal, Canada**							
+Lakewoods Wheat Bran	Manchester	13.00	13.4	2.00	4.1	11.50	10.9

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE 11 — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Lauhoff Soya Co. **Danville, Ill.**							
44% Protein Solvent Extracted Soybean Oil Meal	Potter Place	44.00	45.8	0.50	0.6	7.00	6.2
Lincoln Mills Inc. **Indianapolis, Ind.**							
Pulverized Lincoln Oats Containing Wheat and Barley	Manchester	11.00	12.4	2.00	3.1	13.00	13.4
L. B. Lovitt & Co. **Memphis, Tenn.**							
"Lovit Brand" 41% Protein Cottonseed Meal	Bow	41.00	41.5	3.00	3.4	14.00	12.1
+"Lovit Brand" 41% Protein Cottonseed Meal (Prime Quality)	Keene	41.00	**38.7**	3.00	4.5	14.00	12.6
"Lovit Brand" 41% Protein Cottonseed Meal (Prime Quality)	Bow	41.00	**40.4**	3.00	3.6	14.00	12.6
Maine Marine Products Inc. **Portland, Me.**							
Maine Concentrate	Bow	50.00	56.0	10.00	16.3	1.00	0.7
Mapleleaf Milling Co. **Winnipeg, Canada**							
+Mapleleaf Bran	Bow	14.00	16.4	3.50	5.3	11.50	10.2
Rex Wheat Middlings w/Screenings not exceeding Mill Run	Potter Place	15.00	15.7	4.00	4.9	9.50	7.7
Marianna Sales Co. **Memphis, Tenn.**							
White Mule Brand 41% Protein Cottonseed Meal	N. Haverhill	41.00	**39.7**	4.00	3.9	13.00	**14.9**
Merrimack Farmers Exchange, Inc. **Concord, N. H.**							
Chloratetracycline and Oxytetracycline Mixture in High-Level Antibiotic Mash (Pelleted)	Henniker	20.00	22.1	2.50	3.2	4.50	3.8
Chloratetracycline and Oxytetracycline Mixture included in Merrimack High - Level Antibiotic Mash (Pelleted)	Laconia	20.00	21.6	2.50	3.2	4.50	4.2
Merrimack All Mash	Bradford	15.00	15.4	3.50	3.9	7.00	6.4
Merrimack All Mash	Manchester	15.00	15.8	3.50	4.0	7.00	6.2
**Merrimack All Mash	Franklin	15.00	16.2	3.50	4.2	7.00	5.9
Merrimack Breeder Mash	Claremont	20.00	21.2	3.00	4.5	4.50	4.1
Merrimack Calf Starter and Growing Ration	Bow	12.00	16.0	3.00	3.1	12.00	8.1
Merrimack Calf Starter and Growing Ration	Bradford	12.00	16.3	3.00	**2.7**	12.00	7.5
Merrimack Calf Starter and Growing Ration	Concord	12.00	16.0	2.75	3.0	12.00	7.2

* Protein and fat not less than, crude fiber not more than.

** Bulk.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Merrimack Farmers Exchange (continued)							
Merrimack Calving Ration	Keene	12.00	13.4	3.00	2.5	15.00	11.1
Merrimack Chick Feed	Keene	9.00	10.1	3.00	2.4	5.00	1.4
Merrimack Complete Grower	Laconia	15.00	16.2	3.00	3.8	8.00	5.5
Merrimack Complete Layer	Laconia	15.00	15.2	3.00	3.9	7.00	5.8
Merrimack Conditioner Pellets	Claremont	17.00	19.1	2.50	3.8	8.00	6.0
Merrimack 16% Dairy Ration	Claremont	16.00	17.1	3.50	3.8	9.00	7.6
Merrimack 16% Dairy Ration	Laconia	16.00	16.7	3.50	3.7	9.00	7.9
16% (Fine) Dairy Ration	Keene	16.00	16.7	3.00	2.8	10.00	8.1
Merrimack 20% Dairy Ration	Warner	20.00	20.3	3.50	3.3	8.50	8.2
Merrimack Economy Layer	Keene	15.00	16.2	3.00	3.7	8.00	6.3
Merrimack 16% Economy Ration	Milford	16.00	15.3	3.00	3.2	12.00	9.0
Merrimack Finishing Ration	Keene	16.00	18.0	3.00	4.0	4.50	4.9
Merrimack 14% Fitting Ration	Laconia	14.00	14.8	3.50	3.2	9.00	6.9
Merrimack 14% Fitting Ration	Manchester	14.00	14.5	3.50	3.6	9.00	6.2
Merrimack 14% Fitting Ration	Laconia	14.00	14.8	3.50	4.0	9.00	7.0
Merrimack 14% Fitting Ration	Concord	14.00	15.5	3.50	4.0	9.00	7.6
Merrimack Fodder Ration	Keene	10.00	11.4	1.50	2.4	20.00	17.7
Merrimack Growing Mash	Keene	19.00	19.8	3.00	4.4	4.50	4.5
Merrimack Hi-F Grower	Laconia	16.00	16.7	2.50	3.4	4.50	4.5
Merrimack Hi-F Layer	Laconia	15.00	16.1	2.50	3.7	4.50	4.1
**Merrimack Hi-F Layer	Warner	15.00	16.6	2.50	3.8	4.50	3.6
**Merrimack Hi-F Layer Pellets	Warner	15.00	17.9	2.50	3.6	4.50	4.1
Merrimack Hi-Pro-Vite Pellets	Claremont	25.00	25,6	2.50	4.0	5.50	4.7
Merrimack Horse Feed	Bradford	11.00	12.6	3.50	3.6	10.00	6.4
Merrimack Laying Mash	Laconia	19.00	19.6	3.50	3.5	7.00	6.1
Merrimack 12% Pasture Ration	Laconia	12.00	15.1	3.00	4.5	10.00	8.2
Merrimack Pig Feed	Laconia	17.00	17.4	3.00	4.4	7.00	7.0
Merrimack Pig Feed	Manchester	17.00	17.6	3.00	4.2	7.00	7.3
Merrimack Pig Feed	Laconia	17.00	17.7	3.00	4.3	7.00	7.8
Merrimack Pig Feed	Concord	17.00	17.2	3.00	4.2	7.00	6.6
Merrimack Poultry Fitting Ration	Claremont	13.50	15.5	2.50	2.7	8.00	5.6
Merrimack Provender	Claremont	9.00	10.5	3.00	3.2	10.00	5.3
Merrimack Rabbit Pellets	Milford	20.00	21.9	2.25	2.9	12.00	8.1
Merrimack Scratch Feed	Claremont	9.00	9.0	2.50	3.0	5.00	2.5
Merrimack Sheep and Goat Ration	Concord	14.00	16.6	2.50	3.0	9.00	6.2
Merrimack 18% Special Dairy Ration	Warner	18.00	19.3	3.50	3.5	8.50	7.8
Merrimack Stock Feed	Henniker	9.00	11.5	2.50	3.2	12.00	9.6
Merrimack Super Mash	Warner	16.00	17.7	2.50	3.8	4.50	4.4
Merrimack Turkey Growing Mash	Warner	20.00	21.4	2.50	3.6	8.00	5.7
Sulfaquinoxaline mixed with Merrimack All Mash	Laconia	15.00	15.8	3.50	4.1	7.00	6.1
Sulfaquinoxaline Mixture in Merrimack Fast-Gro Starter & Broiler (Pelleted)	Laconia	20.00	21.2	3.00	3.4	4.50	3.7
**Sulfaquinoxaline in Merrimack Hi-F Grower	Warner	16.00	17.9	2.50	3.3	4.50	4.5
Sulfaquinoxaline in Merrimack Hi-F Grower	Keene	16.00	17.6	2.50	3.7	4.50	5.1
.0175% Sulfaquinoxaline in Merrimack Complete Grower	Bradford	15.00	15.6	3.00	3.8	8.00	5.9
Sweetened Oat Mill Feed	Milford	3.00	3.6	1.00	0.6	30.00	26.0

* Protein and fat not less than, crude fiber not more than.
** Bulk.
-|- Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Midwest Dried Milk Co. **Dundee, Ill.**							
+Midwest Whey Sweet Dried Whole	Greenfield	12.50	12.5	0.50	0.5	0.50	0.1
Miller Alfalfa Co. **Defiance, Ohio**							
+17% Miller's Choice Brand Dehydrated Alfalfa Meal	Manchester	17.00	20.1	1.50	3.0	27.00	22.9
Geo. Q. Moon & Co., Inc. **Binghamton, N. Y.**							
Moon Breeder Mash	Derry	20.00	**19.0**	4.00	4.1	7.00	6.5
+Moon Bulky Cow Feed	Derry	11.00	11.8	2.00	2.3	16.00	12.9
Moon Complete Growing Mash	Derry	16.00	16.4	3.50	4.5	7.00	6.6
Moon Dairy Fitting Ration	Derry	13.00	15.1	4.00	3.8	9.00	8.3
+Moon 16% Dairy Ration	Derry	16.00	16.4	3.50	4.4	10.00	10.3
+Moon Developing Grains	Salem Depot	10.00	10.6	1.50	2.6	7.00	2.3
Moon Hog Feed	Derry	13.00	14.8	3.00	4.5	12.00	5.8
Moon N. E. Complete Growing Mash (Pellets)	Salem Depot	16.00	19.4	3.00	4.1	9.00	8.0
Moon N. E. Complete Laying Mash	Salem Depot	16.00	18.9	3.00	4.3	9.00	9.0
Moon N. E. Complete Laying Mash	Derry	16.00	17.1	3.00	4.0	9.00	8.9
Moon N. E. 20% Laying Mash	Salem Depot	20.00	20.0	3.00	4.1	8.00	7.0
Moon Scratch Feed	Salem Depot	10.00	11.5	2.00	3.0	5.00	2.7
+Moon Sulfaquinoxaline Mixture in Moon Super Starter & Broiler Mash	Derry	20.00	21.3	3.00	3.8	3.50	3.7
Mowat, Wilson & Co. **Detroit, Mich.**							
Dominion Dried Beet Pulp	Exeter	7.00	8.0	0.30	0.5	22.00	20.8
Dried Molasses Beet Pulp	Bradford	7.00	8.2	0.3	0.5	20.00	20.2
Mutual Products Co. **Minneapolis, Minn.**							
Dairyade Formula 33	Lebanon	25.00	25.3	4.50	5.1	2.00	2.0
Dairyade Original Formula	Lebanon	20.00	20.4	4.50	4.7	3.00	2.5
Nappanee Milling Co., Inc. **Nappanee, Ind.**							
Hominy Feed	Greenfield	10.00	10.5	6.50	9.6	7.50	5.0
National Alfalfa Dehydrating & Milling Co. **Lamar, Col.**							
+Jack Rabbit 17% Dehydrated Alfalfa Granules	Keene	17.00	17.2	1.50	2.9	27.00	25.0
National Biscuit Co. **Toledo Mill, Toledo, Ohio**							
Namico with Ground Wheat Screenings	Bow	14.00	15.0	3.50	4.3	9.00	6.3

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Ogden Grain Co.							
Utica, N. Y.							
Ogden Biddy Mash	Manchester	20.00	**19.0**	2.50	3.4	7.50	6.6
+Ogden Complete Grower	Salem Depot	15.00	**17.5**	3.00	3.6	7.00	6.4
+Ogden Complete Layer	Salem Depot	15.00	17.1	3.00	3.2	7.00	6.0
Ogden Complete Starter Grower Layer Breeder	Manchester	16.00	17.1	2.50	4.3	7.50	5.3
Ogden 16% Dairy Feed	Manchester	16.00	17.1	3.50	3.7	9.00	8.0
Ogden Hi-Energy Laying Mash	Manchester	15.00	15.9	3.00	3.9	4.00	4.0
Ogden Hi-Energy Starter & Broiler	Manchester	22.00	22.8	3.00	3.6	4.00	4.2
Ogden Horse Feed	Manchester	10.00	11.3	3.00	4.0	9.00	7.9
Ogden Poultry and Turkey Fitting Ration	Manchester	10.00	10.7	3.00	3.6	8.00	4.5
Ogden Rabbit Pellets	Manchester	16.50	**16.0**	3.00	3.5	13.00	10.4
+Ogden Scratch Grains	Manchester	9.00	10.9	3.00	3.6	6.00	3.1
Ogden Sulfaquinoxaline in Complete Chick Starter	Manchester	20.00	20.0	3.00	3.6	7.00	6.2
+Turkey Starter Inc. with Sulfaquinoxaline Mixture	Salem Depot	28.00	**26.5**	3.00	**2.5**	7.00	4.8
U-T-K Fitting Ration	Salem Depot	14.00	15.0	3.00	4.0	12.00	8.8
+Ogden U-T-K Sweet 16%	Salem Depot	16.00	18.8	3.00	4.5	12.00	8.4
+Ogden U-T-K Sweet 18%	Salem Depot	18.00	18.0	3.00	4.4	12.00	8.1
Ogilvie, Flour Mills							
Montreal, P. O., Canada							
+Ogilvie Wheat Bran	Potter Place	15.00	**13.4**	3.50	4.6	11.50	11.5
Park & Pollard Co.							
Buffalo, N. Y.							
+Hi Prime Complete Turkey Grower (Pellets)	Salem Depot	20.00	21.1	3.50	3.5	5.50	4.8
Hi-Prime Turkey Finisher	Claremont	14.00	16.3	3.50	3.5	4.00	**5.6**
Lay or Bust All Mash Layer	N. Haverhill	16.50	**15.1**	3.50	3.5	5.00	4.8
Lay or Bust Broiler Finishing Mash	Claremont	18.00	19.6	3.50	4.0	4.00	1.2
+Lay or Bust Economy Scratch	Claremont	9.00	10.8	2.00	3.6	5.00	3.2
Lay or Bust Growing Pellets	Colebrook	18.00	19.0	3.50	3.5	5.50	4.7
Lay or Bust Hi-Valu Pellets	Colebrook	12.00	13.1	3.00	4.1	6.50	5.5
Lay or Bust Poultry Fitting Ration	Colebrook	12.00	17.2	3.00	**2.2**	9.50	7.3
Milk Maid Calf Starter Mix	Lebanon	19.00	18.8	3.50	**3.0**	8.00	5.5
Milk Maid 16% Dairy Ration	N. Haverhill	16.00	17.0	3.50	3.8	10.00	8.4
Milk Maid 16% Dairy Ration	Claremont	16.00	16.9	3.50	4.0	10.00	7.9
Milk Maid 20% Dairy Ration	N. Haverhill	20.00	21.0	3.50	3.6	10.00	7.9
Milk Maid Dri-Fresh Ration	Colebrook	12.00	17.3	3.00	2.8	10.00	7.4
Milk Maid Fitting Ration	Lebanon	14.00	14.9	3.00	3.4	9.00	7.6
Milk Maid Test Cow Ration	Lebanon	18.00	19.9	4.00	4.1	9.00	8.5
Milk Maid 14% Test Ration	Lebanon	14.00	14.4	4.00	4.2	9.00	8.1
Milk Maid Yankee Horse Feed	N. Haverhill	10.00	12.7	2.50	3.6	10.00	6.9
Park & Pollard Complete Grower	Colebrook	15.00	15.8	3.00	4.3	6.00	5.0
Park & Pollard Complete Layer	Newport	15.00	15.7	3.00	3.7	6.00	5.2
P & P Go-Tu-It Pig Grower	Lebanon	14.00	**13.5**	3.50	3.6	6.00	6.0
Park & Pollard Laying Mash	Newport	20.00	19.8	3.00	3.3	6.00	5.8
+Park & Pollard Scratch	Newport	9.00	9.6	2.00	3.4	5.00	2.7
Red Ribbon 16% Dairy Ration	Newport	16.00	18.3	3.50	4.0	11.00	8.2
Yankee Horse Feed	Claremont	10.00	12.3	2.50	3.3	10.00	7.0

* Protein and fat not less than, crude fiber not more than.
\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
George H. Parker Grain Co. **56 Water St., Danvers, Mass.**							
+Bill McHughs Horse Feed with Vitamins and Minerals Added	Salem Depot	12.00	12.9	3.50	**3.07**	10.00	6.9
Parrish & Heimbacker Ltd. **Toronto, P. Q., Canada**							
+Parrhein Pure Wheat Bran	Keene	14.00	**12.7**	3.50	3.8	11.50	9.9
Parrheim Pure Wheat Bran	Hillsboro	14.00	14.4	3.50	4.1	11.50	9.0
+Parrheim Pure Wheat Shorts	Keene	14.00	**13.5**	3.50	4.0	8.00	3.1
Pasco Packing Co. **Dade City, Fla.**							
Sugar-Sweet Citrus Meal	Bow	6.00	6.0	2.00	2.0	13.50	11.2
Sugar-Sweet Citrus Pulp	Keene	6.00	6.1	2.50	5.5	13.50	10.8
Pillsbury Mills Inc. **Minneapolis, Minn.**							
Pillsbury Hard Wheat Bran with Ground Wheat Screenings not exceeding Mill Run	Jaffrey	14.00	16.7	4.00	4.5	12.00	9.7
Pittsburg Plate Glass Co. **Red Wing, Minn.**							
+Red Wing 36% Protein Solvent Extracted Linseed Meal	Keene	36.00	**33.1**	0.50	1.6	10.00	10.5
Platte Valley Products Co. **Lexington, Neb.**							
+Dehydrated Alfalfa Meal	Bow	17.00	**16.1**	1.50	2.1	27.00	**30.2**
R. C. Pratt & Co., Ltd. **18 Toronto St., Toronto, Canada**							
+Ruler Brand Pure Wheat Shorts	Bow	15.00	**14.0**	3.50	5.0	10.50	6.7
Presto Grain Co., Inc. **Claremont, N. H.**							
Presto 16% Dairy Ration	Claremont	16.00	**15.4**	3.50	3.9	9.00	7.4
Presto 20% Dairy Ration	Claremont	20.00	21.0	3.50	3.5	9.00	7.1
Presto Fitting Ration	Claremont	14.00	14.8	3.50	4.2	9.00	7.0
George Pritchard Grain Co. **Dover, N. H.**							
Pritchard Complete Grower-Layer Mash	Dover	16.00	16.1	4.00	4.8	7.00	6.1
Pritchard Complete Grower-Layer Mash	Dover	16.00	17.2	4.00	4.7	7.00	6.1
Pritchard Grower-Layer Mash	Dover	20.00	**19.3**	4.00	4.5	7.00	6.8
Pritchard Scratch Feed	Dover	9.50	9.8	3.00	3.2	5.00	3.5
The Quaker Oats Co. of Canada **Peterborough, Ont., Canada**							
+Peterborough Oat Feed	Bow	3.50	**2.6**	1.00	0.8	32.50	28.5
Peterborough Oat Huller Feed	Manchester	2.50	2.8	1.00	1.0	34.00	33.0

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Quebec Sugar Refinery Co. **St. Hilaire, Canada**							
+Dried Beet Pulp	Manchester	7.00	8.0	0.30	0.8	22.50	21.2
Ralston Purina Co. **St. Louis, Mo.**							
+Northeastern Scratch Feed	Concord	9.00	10.0	2.00	2.5	5.00	2.9
Purina Breeder Layena (Complete Ration) E	Manchester	16.00	18.3	2.50	4.4	5.00	3.9
Purina Broiler Chow Finisher E	Manchester	18.00	18.7	4.50	5.8	5.00	3.6
Purina Chick Growena E	Concord	17.00	18.5	3.00	4.5	7.00	5.1
Purina Chick Growing Chow E	Concord	23.00	23.4	2.50	3.8	8.00	6.3
Purina Chlortetracycline & Nitrophenide in Chek-R-Aid E	Concord	20.00	22.8	3.00	4.9	6.00	4.8
Purina Cow Chow 14%	Concord	14.00	14.8	3.00	2.8	10.00	5.6
Purina Cow Chow 16%	W. Stewartstown	16.00	14.2	3.00	2.7	10.00	6.9
Purina D & F Chow E	Manchester	12.50	13.0	2.00	2.6	12.00	8.1
Purina Dairy Chow 16%	Manchester	16.00	15.7	2.50	3.8	15.00	9.5
Purina Dairy Chow 16%	Concord	16.00	15.6	2.50	3.1	15.00	8.3
Purina Dairy Chow 18%	Manchester	18.00	18.1	2.50	3.8	15.00	10.2
+Purina Hen Chow D	Concord	9.00	9.8	2.00	2.0	5.00	2.6
Purina Layena (Complete Ration) E	W. Stewartstown	16.00	17.3	2.50	4.4	5.00	4.0
Purina Mink Chow	Manchester	20.00	22.4	2.00	4.1	5.50	3.2
Purina Omolene	Manchester	10.00	10.8	3.00	3.5	11.00	7.3
Purina Poultry Booster Chow E	Manchester	24.00	25.4	2.50	4.6	8.00	5.7
Purina Poultry Wormer E	Concord	18.00	20.7	3.00	3.4	7.00	5.2
Purina Rabbit Chow Checkers	Manchester	15.00	17.1	2.00	2.8	18.00	13.4
Purina Roaster Chow	Concord	17.00	19.3	2.50	3.5	6.50	5.1
Purina Turkey Breeder Layena E	Manchester	16.50	17.2	3.00	4.4	8.00	5.1
Purina Turkey Fatena E	Manchester	15.50	18.1	2.50	4.7	8.00	4.8
Purina Turkey Growena E	Manchester	20.00	21.6	3.00	4.1	7.00	4.9
Purina Turkey Startena E	Manchester	28.00	28.5	2.50	4.7	7.00	6.1
Purina 3-Nitro-4 Hydroxyphenlarsonic Acid and Nitrophenide (from Megasul) Mixture in Purina Broiler Chow Finisher E	Manchester	18.00	19.1	4.50	7.3	5.00	3.5
Purina 3-Nitro-4 Hydroxyphenylarsonic Acid and Nitrophenide (from Megasul) Mixture in Purina Broiler Chow Starter E	Manchester	22.00	24.0	4.50	5.5	5.00	4.5
Purina 3-Nitro-4 Hydroxyphenylarsonic Acid and Nitrophenide in Purina Broiler Chow Starter E	Concord	22.00	24.2	4.50	5.4	5.00	4.7
Purina 3-Nitro-4 Hydroxyphenylarsonic Acid in Purina Broiler Chow Starter E	Concord	22.00	23.9	4.50	6.5	5.00	2.7
.005% 3-Nitro-4 Hydroxyphenylarsonic Acid in Purina Broiler Chow Starter E	Manchester	22.00	23.6	4.50	5.4	5.00	4.0

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
John Reardon & Sons **Cambridge, Mass.**							
Registered Brand Fish Meal	Suncook	58.00	64.4	5.00	4.5	1.00	0.18
Registered Brand 45% Protein Meat & Bone Scrap	Dover	45.00	46.0	8.00	14.1	.....	.....
Registered Brand 45% Protein Meat & Bone Scrap	Concord	45.00	44.6	8.00	8.7	.....	.....
Registered Brand 45% Protein Meat & Bone Scrap	Dover	45.00	48.2	8.00	8.4	.....	.....
Saunders Mills, Inc. **Toledo, Ohio**							
+13% Alfalfa Meal (Pelleted)	N. Haverhill	13.00	15.7	1.50	1.8	33.00	28.5
Schoeneck Farms **Nazareth, Pa.**							
17% Super Green Dehydrated Alfalfa Meal	Manchester	17.00	22.8	2.00	2.9	27.00	21.7
Joseph E. Seagrams & Sons, Inc. **Louisville, Ky.**							
Seagrams Corn Distillers Dried Grains	Manchester	26.00	27.1	8.00	10.1	11.00	8.1
Seagrams Corn Distillers Dried Solubles	Manchester	30.00	36.2	5.00	5.7	5.00	4.8
Sherwin Williams Co. **Cleveland, Ohio**							
+Sherwin-Williams 36% Linseed Oil Meal	Bow	36.00	37.1	0.50	1.4	9.50	8.7
Sherwin-Williams Linseed Oil Meal Blend of Solvent Extracted and Expeller	Colebrook	34.00	34.5	3.50	5.2	9.00	8.7
Smith Meal Co. **Amagansett, N. Y.**							
Smith Fish Meal	Manchester	55.00	67.0	5.00	6.1	3.00	0.1
South End Grain Inc. **Manchester, N. H.**							
Nitrophenide mixed with Superior Broiler	Chester	20.00	20.7	2.50	3.8	4.00	3.4
Nitrophenide mixed with Superior Broiler	Manchester	20.00	20.1	2.50	4.3	4.00	3.4
F. B. Spaulding Co. **Lancaster, N. H.**							
Provender	Lancaster	10.00	10.7	3.50	4.0	9.00	5.7
Spaulding 16% Dairy Ration	Lancaster	16.00	16.3	3.00	3.5	9.00	7.4
Spaulding 20% Dairy Ration	Lancaster	20.00	19.2	2.75	3.6	9.00	7.7
Spaulding Fitting Ration	Lancaster	12.00	13.8	3.25	3.5	9.00	7.9
Spaulding Horse Feed	Lancaster	10.00	12.3	3.25	3.5	9.00	8.0

* Protein and fat not less than, crude fiber not more than.

** Bulk.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Spencer Kellog Co. **Edgewater, N. J.**							
Spencer-Kellogs 32% Old Process Expeller Linseed Oil Meal	Potter Place	32.00	34.7	3.50	4.2	8.50	8.5
Suni Citrus Products Co. **Haines City, Fla.**							
Sweet Suni Citrus Pulp	Keene	6.00	6.1	3.00	2.7	15.00	9.7
Tioga Mills, Inc. **Waverly, N. Y.**							
Sulfaquinoxaline in Tioga Broiler Feed (Crumbles)	Derry	22.00	23.0	2.50	3.1	5.00	3.5
+Ti-O-Ga Flusher	Derry	12.00	12.6	2.00	2.8	4.50	2.2
Top Notch Flour Mills **Seaforth, Ont., Canada**							
+Topnotch Wheat Bran	Keene	15.00	15.6	3.50	5.1	11.50	9.6
+Topnotch Wheat Shorts	Keene	14.00	16.3	3.50	5.5	8.00	6.9
Union Starch & Refining Co. **Columbus, Indiana**							
Union Corn Gluten Meal	Manchester	41.00	41.9	1.00	2.7	5.00	5.0
United Coop Farmers Inc. **Fitchburg, Mass.**							
**U.C.F. All Mash Grower and Layer	New Ipswich	15.50	16.1	2.50	4.4	4.50	3.7
**U.C.F. Layer	New Ipswich	20.00	20.5	2.50	4.2	5.00	4.3
**U.C.F. Scratch Feed	New Ipswich	9.00	11.1	3.00	4.0	8.00	4.4
Unity Feeds Inc. **Manchester, N. H.**							
Unity Feeds Breeder Mash	Manchester	20.00	20.9	3.00	4.8	6.00	5.1
Unity Feeds Chick Starter	Manchester	20.00	21.5	3.00	3.3	4.50	4.4
Unity Feeds Chlortetracycline (Aureomycin) Mixture in Unity Booster Etts	Milford	17.00	17.8	2.00	4.7	4.00	3.6
Unity Feeds Complete Market Egg Mash	Milford	15.00	15.5	3.00	4.0	6.00	5.0
Unity Feeds Complete Market Egg Mash	Concord	15.00	15.6	3.00	4.3	6.00	4.5
Unity Feeds Complete Rabbit Pellets	Manchester	16.00	17.3	3.00	3.6	20.00	13.1
Unity Feeds 16% Dairy Ration	Milford	16.00	17.4	3.50	4.1	9.00	8.1
Unity Feeds 20% Dairy Ration	Manchester	20.00	21.4	3.50	4.6	9.00	8.6
Unity Feeds Dairy and Fitting Ration	Milford	14.00	14.3	3.50	4.3	8.00	8.6
**Unity Feeds Dairy & Fitting Ration	Manchester	14.00	14.8	3.50	4.2	8.00	8.9
Unity Feeds Dairy & Fitting Ration	Concord	14.00	14.3	3.50	3.8	8.00	8.6
**Unity Feeds Fattening Station Pellets	Manchester	14.00	14.0	3.00	4.2	7.00	3.9
Unity Feeds Growing Mash	Milford	18.00	18.1	3.00	4.1	7.00	5.1

* Protein and fat not less than, crude fiber not more than.

** Bulk.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Unity Feeds (continued)							
**Unity Feeds High Energy Breeder Mash	Manchester	16.00	17.5	3.00	4.3	4.00	3.5
Unity Feeds High Energy Breeder Mash	Manchester	16.00	17.5	3.00	4.4	4.00	3.6
Unity Feeds High Energy Growing Mash	Manchester	15.00	15.9	3.00	3.7	4.50	3.4
**Unity Feeds High Energy Laying Mash	Manchester	15.00	15.8	3.00	4.5	4.50	4.0
Unity Feeds High Energy Laying Mash (Pellets)	Manchester	15.00	15.8	3.00	4.6	4.50	3.8
Unity Feeds Horse Feed	Manchester	10.00	11.2	3.00	3.3	9.00	5.3
Unity Feeds Laying Mash	Milford	20.00	19.6	3.00	4.7	7.00	5.7
Unity Feeds Nitrophenide Mixture in Advance Ration	Manchester	20.00	21.7	2.50	3.7	4.50	5.2
Unity Feeds Nitrophenide Mixture in Super Gro Ration	Milford	17.00	17.0	2.50	4.7	3.50	3.6
Unity Feeds Nitrophenide Mixture in Super Ration	Milford	20.00	20.3	3.00	4.0	3.50	3.4
Unity Feeds Pig & Hog Ration	Milford	17.00	17.2	3.00	4.0	6.00	4.8
Unity Feeds Pig & Hog Ration	Concord	17.00	**15.1**	3.00	4.2	6.00	4.9
+Unity Feeds Scratch Feed	Milford	9.00	10.2	2.50	3.8	5.00	4.7
Unity Feeds Super Gro Ration	Manchester	17.00	17.8	2.50	3.7	4.00	3.5
Unity Feeds Turkey Finishing Pellets	Manchester	16.00	17.1	3.00	3.6	7.00	5.8
Unity Feeds Turkey & Game Bird Breeder Mash	Brentwood	24.00	**20.7**	3.00	3.8	6.00	4.8
Unity Feeds Turkey & Game Bird Growing Mash	Manchester	20.00	**19.4**	3.00	4.0	5.00	4.9
Unity Feeds Unity Improved Calf Ration	Manchester	20.00	22.0	3.50	3.6	6.00	6.6
Unity Grist Mill **Manchester, N. H.**							
**Unity Feeds Dairy & Fitting Ration	Hopkinton	14.00	14.7	3.50	5.1	8.00	**9.0**
**Unity Feeds Dairy & Fitting Ration	Bradford	14.00	15.6	3.50	4.0	8.00	**9.0**
**Unity Grist Mill 4-Way Mash	Belmont	15.00	16.3	3.50	4.1	7.00	5.8
Unity Grist Mill 4-Way Mash	Milford	15.00	16.2	3.50	4.5	7.00	5.3
Hiram Walker & Sons Ltd. **Walkerville, Ont.**							
+Corn Distillers Dried Grains	Greenfield	24.00	27.3	8.00	**5.6**	13.00	7.5
H. K. Webster Co. **Lawrence, Mass.**							
Blue Seal All Mash Egg Ration	Laconia	16.00	19.4	3.00	3.5	4.00	3.9
Blue Seal Chloratetracycline and Sulfaquinoxaline Mixture	Nashua	20.00	22.1	3.00	3.8	4.00	4.0
Blue Seal "16" Dairy Ration (Coarse)	Nashua	16.00	18.0	3.50	4.3	9.00	8.4
Blue Seal "16" Dairy Ration (Coarse)	Laconia	16.00	19.2	3.50	3.6	9.00	8.5

* Protein and fat not less than, crude fiber not more than.

** Bulk.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
H. K. Webster (continued)							
Blue Seal Fine "16" Dairy Ration	Lisbon	16.00	18.2	3.50	4.0	9.00	7.6
Blue Seal "20" Dairy Ration (Coarse)	Laconia	20.00	22.2	3.50	3.6	9.00	7.7
Blue Seal Economizer "16" Dairy Ration	Laconia	16.00	17.0	2.50	2.9	15.00	8.3
Blue Seal Egg Mash	Nashua	20.00	20.9	3.50	5.3	7.00	6.4
Blue Seal Fitting Ration	W. Stewartstown	14.00	15.4	3.50	3.4	9.00	8.5
Blue Seal Growing Mash	Exeter	18.00	19.4	3.50	4.2	6.50	6.1
Blue Seal Horse Feed	Laconia	10.00	12.7	3.00	3.2	9.00	5.8
Blue Seal Pig Feed	W. Stewartstown	15.00	15.1	3.00	4.5	6.00	4.2
Blue Seal Poultry & Turkey Fitting	Nashua	12.00	13.5	2.50	3.1	6.00	4.4
Blue Seal Provender	W. Stewartstown	9.50	9.3	3.50	3.6	7.00	6.1
Blue Seal Scratch Feed	Nashua	9.50	11.2	2.50	3.0	4.00	2.9
Blue Seal Scratch Feed	Laconia	9.50	11.0	2.50	3.1	4.00	2.7
+Blue Seal Sodium Propionate Mixture for Ketosis Control	Nashua	14.00	16.0	3.50	3.5	9.00	8.0
Blue Seal Standard "16" Dairy Ration	Lisbon	16.00	18.9	3.00	3.8	9.00	8.4
Blue Seal Succulent Feed and Calving Ration	Lisbon	12.00	13.6	2.00	2.1	16.00	15.2
Blue Seal Sulfaquinoxaline Mixture in Advance Broiler	Exeter	20.00	21.1	4.00	4.5	4.00	3.7
Blue Seal Sulfaquinoxaline Mixture in Advance Broiler	Nashua	20.00	21.7	4.00	4.3	4.00	3.7
Blue Seal Sulfaquinoxaline Mixture in Super All Mash Growing Ration	Nashua	16.00	20.8	3.00	3.7	4.00	3.5
Blue Seal Sulfaquinoxaline Mixture Super Starter and Broiler	Nashua	20.00	21.7	3.00	3.7	4.00	3.8
Blue Seal Super All Mash Breeder Ration	Nashua	16.00	17.7	3.50	4.3	4.00	3.4
Blue Seal Super All Mash Egg Ration	W. Stewartstown	16.00	16.1	3.00	3.6	4.00	3.4
Blue Seal Super All Mash Growing Ration	W. Stewartstown	16.00	15.0	3.00	3.5	4.00	3.1
Blue Seal Super Mash	Nashua	20.00	22.5	3.50	4.4	4.00	3.2
Blue Seal Test Ration	Lisbon	18.00	21.1	3.50	3.9	9.00	7.6
Blue Seal Turkey Growing (Pellets)	Nashua	20.00	21.5	3.50	4.1	7.00	7.0
Whitmoyer Laboratories Inc. Myerstown, Pa.							
Clo-Meal	Keene	40.00	38.6	10.00	16.1	3.75	1.4
Gro-Tein	Keene	42.00	45.6	6.00	7.4	5.50	1.0
+Whitmoyer Quality Fish Meal	Suncook	56.00	56.5	9.00	7.3		
+Whitmoyer Quality 57% Fish Meal	Keene	57.00	57.0	6.00	7.3		

* Protein and fat not less than, crude fiber not more than.

\+ Unregistered when sampled.

TABLE II — INGREDIENTS AND MIXED FEEDS — Concluded

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Winslow & Keniston, Inc.							
Concord, N. H.							
Win-Ken Breeder (Pellets)	Concord	22.00	22.6	3.00	3.2	7.00	6.7
Win-Ken Fore Runner	Concord	20.00	22.0	3.00	4.0	4.50	3.9
Win-Ken Hi-Efficiency Breeder (Pellets)	Concord	16.00	16.2	3.00	3.8	4.00	3.7
Win-Ken Hi-Efficiency Grower (Pellets)	Concord	16.00	15.5	3.00	3.5	4.50	3.5
Win-Ken Hi-Efficiency Layer (Pellets)	Concord	16.00	16.8	3.00	4.7	4.50	4.3
Win-Ken Layer	Concord	20.00	20.9	3.00	4.4	7.00	5.6
Win-Ken S-F Mash	Concord	15.00	17.3	3.00	3.7	6.00	4.8
Wirthmore Feed Co.							
Concord, N. H.							
Hygrade Breeder Mash	Concord	20.00	20.9	3.50	4.5	6.50	6.6
Hygrade Broiler Ration	Concord	20.00	21.5	3.00	4.2	4.50	3.0
Hygrade Chick Starter	Concord	20.00	20.6	3.00	4.9	6.50	5.3
Hygrade 16% Dairy	Concord	16.00	17.4	3.50	3.7	9.00	9.6
**Hygrade 16% Dairy	Hopkinton	16.00	17.6	3.50	4.0	9.00	9.5
**Hygrade 14% Fitting Ration	Concord	14.00	15.8	3.50	4.2	9.00	9.8
Hygrade 14% Fitting Ration	Concord	14.00	16.0	3.50	3.9	9.00	9.8
Hygrade Growing Mash	Concord	18.00	18.5	3.00	4.2	6.50	6.2
Hygrade High Energy Breeder	Concord	16.00	17.6	3.00	4.7	4.50	3.4
Hygrade High Energy Grower	Concord	16.00	17.4	3.00	4.7	4.50	3.5
**Hygrade High Energy Layer	Claremont	16.00	17.1	3.00	4.4	4.50	3.6
Hygrade High Energy Layer	Concord	16.00	17.6	3.00	4.1	4.50	3.6
Hygrade Horse Feed	Concord	10.00	11.5	3.00	4.0	10.00	7.9
Hygrade Laying Mash	Concord	20.00	21.4	3.50	4.2	6.50	6.2
Hygrade Pig Feed	Concord	17.00	18.6	3.50	4.0	7.50	7.5
Hygrade Sulfaquinoxaline in Broiler Ration	Concord	20.00	22.2	3.00	4.3	4.50	3.3
Hygrade Sulfaquinoxaline in High Energy Grower	Concord	16.00	17.6	3.00	3.8	4.50	3.5
Yieldmor Feeds Inc.							
Piqua, Ohio							
+Yieldmor .0175 Sulfaquinoxaline in Yieldmore Hi Energy Broiler Ration	Derry	20.00	22.1	3.00	3.8	4.50	3.4

* Protein and fat not less than, crude fiber not more than.

** Bulk.

\+ Unregistered when sampled.

Table III

CAT AND DOG FOODS

TABLE III — CAT and DOG FOODS

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Allen Products Co., Inc.							
Allentown, Pa.							
Al Po Dog Food	Claremont	14.50	14.6	2.00	10.1	1.50	0.3
Allied Mills, Inc.							
Chicago, Ill.							
Wayne Dog Food Blox	W. Lebanon	25.00	24.2	7.00	7.1	5.00	2.9
American Crab Meat Co., Inc.							
Boston, Mass.							
Little 3 Kittens Cat Food	Claremont	15.00	16.1	0.50	2.2	0.10	0.01
Animal Foundation Inc.							
Sherburne, N. Y.							
Hunt Club Full Diet Dog Meal	Manchester	23.00	26.0	5.00	5.0	4.00	3.4
Armour & Co.							
Chicago, Ill.							
Dash Armour Dog Food	Nashua	10.50	11.2	2.50	5.6	1.00	0.7
Cal Cod Process Co.							
New Hamburg, N. Y.							
Cal Cod Dog Food	Newport	25.00	26.4	4.00	6.2	4.00	3.1
Calo Dog Food Co., Inc.							
Oakland, California							
Calo Cat Food	Nashua	10.00	10.6	2.00	4.0	1.00	0.8
Calo Dog Food	Nashua	10.00	10.6	2.00	4.9	1.00	0.8
Calo 100% Horse Meat Dog Food	Manchester	15.00	15.0	3.00	14.5	1.00	0.3
Chas. M. Cox Co.							
Boston, Mass.							
Wirthmore Dog Food Meal	Lisbon	25.00	26.3	7.00	8.6	5.00	3.4
Deep Run Packing Co.							
Dublin, Pa.							
Big Bet Dog Ration	Sunapee	10.00	11.7	3.00	2.6	1.50	1.5
Big Bet Horse Meat Dog Food	Manchester	17.00	16.1	3.00	7.6	1.50	0.3
Big Bet 100% Horse Meat Dog Food	Sunapee	17.00	17.0	3.00	14.9	0.2	0.1
Delham Food Products Co., Inc.							
Brighton, Mass.							
Kim's 100% Horsemeat Dog Food	Manchester	18.00	17.5	5.00	7.6	0.05	0.03
John C. Dow Co.							
Gloucester, Mass.							
Dows Dog Food Crumpled Meal	Concord	24.00	31.7	4.00	5.6	3.50	2.0
Doyle Packing Co.							
Long Branch, N. J.							
Strongheart Dog Food	Nashua	8.00	8.2	2.00	4.3	1.50	0.9
The Drackett Co.							
Cincinnati, Ohio							
Super Charge Dog Goodies	Manchester	17.00	19.8	9.00	11.1	2.00	1.2

* Protein and fat not less than, crude fiber not more than.

TABLE III — CAT and DOG FOODS — Continued

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed	Found	Guaranteed*	Found	Guaranteed	Found
Eastern States Farmers Exchange, Inc.							
W. Springfield, Mass.							
Eastern States Dog Feed (Pellets)	Claremont	24.00	24.8	5.50	6.7	4.00	2.8
Evans Industries Inc.							
Marion, Ind.							
Better Bite Horsemeat Dog Food	Manchester	14.00	14.1	4.00	6.20	0.50	0.4
Greyhound 100% Horsemeat & Gravey Dog Food	Keene	15.00	15.7	3.50	10.4	1.00	0.1
Premium Horsemeat Pet Food	Keene	8.00	8.9	2.00	0.7	1.50	0.6
Flag Pet Food Corp.							
New York, N. Y.							
+Flag Dog Food	Portsmouth	10.00	11.8	2.00	2.8	1.25	1.2
Food Products Co. of America							
Chicago, Ill.							
+Captain Horse Meat Dog Food	Newport	17.50	16.8	3.50	18.6	1.00	0.2
+Dog House Dog & Cat Food	Newport	10.00	9.3	2.00	2.0	1.50	1.4
Foster Canning Co., Inc.							
Farmingdale, N. J.							
Snappy Dog Food	Manchester	9.00	8.3	1.00	0.7	1.50	1.2
General Foods Corp.							
Boston 10, Mass.							
+Jack & Jill Cat Food	Manchester	14.00	17.3	0.25	0.4	0.25	0.1
Gaines Div., General Foods Corp.							
Kankakee, Ill.							
Gaines Dog Food	Nashua	10.50	11.0	2.50	3.2	1.00	0.5
The Great Atlantic & Pacific Tea Co.							
New York, N. Y.							
Daily Cat Food	Manchester	11.00	14.3	2.00	2.8	1.50	1.0
Daily Dog Food—Diet 1	Manchester	12.00	12.1	3.00	3.2	1.50	1.3
Daily Dog Food—Diet 2	Manchester	12.00	12.5	3.00	2.7	1.50	1.4
Daily Dog Meal	Manchester	23.00	27.1	3.50	4.1	4.50	2.4
Daily Kibbled Biscuit Dog Food	Newport	22.00	25.1	3.00	4.7	3.50	2.5
Hartz Mountain Products							
New York 3, N. Y.							
Dog Yummies—Dog Treat	Manchester	26.00	32.4	3.00	7.5	6.00	2.4
Kasco Mills Inc.							
Waverly, N. Y.							
Kasco Complete Dog Ration	Claremont	25.00	29.1	8.00	10.9	4.00	2.6
Kennel Food Supply							
Fairfield, Conn.							
K.F.S. Certo Meato Dog Food	Claremont	21.00	21.5	2.00	2.7	3.00	1.4

* Protein and fat not less than, crude fiber not more than.
\+ Unregistered when sampled.

TABLE III — CAT and DOG FOODS — Continued

Manufacturer / Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff					
		Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Massachusetts Canning Corp.							
Brighton, Mass.							
Imp All Fish Cat Food	Manchester	14.00	15.3	0.50	0.6	0.10	0.0
Mack's Brand Cooked Horse Meat Dog & Cat Food	Manchester	14.00	16.0	6.00	11.0	0.70	0.2
S. E. Mighton Co.							
Bedford, Ohio							
+100% Horsemeat Brand Dog Food	Portsmouth	15.00	14.6	4.00	16.5	0.50	0.3
+Doggie Dinner for Dogs & Cats	Claremont	10.00	**9.5**	2.00	2.7	1.00	1.0
+Valor Dog Food	Claremont	10.00	**9.2**	2.00	2.5	1.00	1.0
Geo. Q. Moon Co.							
Binghampton, N. Y.							
Moon Dog Food	Salem Depot	26.00	**24.9**	4.00	4.2	4.00	3.6
John Morrell & Co.							
Ottumwa, Iowa							
Morrell Red Heart Dog Food—Beef Flavor	Manchester	10.50	11.0	2.50	2.9	1.00	0.7
Morrell Red Heart Dog Food—Fish Flavor	Manchester	10.50	11.1	2.50	**2.1**	1.00	0.6
Morrell Red Heart Dog Food—Liver Flavor	Newport	10.50	11.5	2.50	8.1	1.00	0.6
National Packing Corp.							
Boston, Mass.							
+Kitty Snicker Cat Food	Manchester	13.00	**11.8**	2.00	3.7	1.00	0.5
Old Mother Hubbard Dog Food Co.							
Gloucester, Mass.							
Original Old Mother Hubbard Fish Cat Food	Manchester	15.50	16.5	0.25	0.4	1.00	0.1
Old Mother Hubbard Three Formula Kibbled Dog Buscuit	Claremont	20.00	23.9	2.00	4.6	3.00	1.3
Orleans Candy Co.							
Chicago, Ill.							
Lolli Pups by Orleans	Exeter	25.00	**23.7**	2.50	2.7	1.50	0.7
Orleans Canning Co.							
Chicago 5, Ill.							
Orleans Horse Meat Dog Food	Manchester	15.00	15.8	3.00	14.8	1.50	0.2
Prime Packing Co.							
Marion, Ind.							
+Prime Dog Food	Rochester	8.00	**7.1**	2.00	**0.6**	1.50	0.4
Quaker Oats Co.							
Chicago, Ill.							
Ken-L-Ration	Manchester	10.00	9.6	2.50	4.9	1.00	0.6
Coast Fisheries, Div. Quaker Oats Co.							
Wilmington, California							
Puss 'n Boots Cat Food	Manchester	12.00	14.0	2.00	3.4	1.00	0.8

* Protein and fat not less than, crude fiber not more than.
\+ Unregistered when sampled.

TABLE III — CAT and DOG FOODS — Concluded

Manufacturer Brand	Sampled in	Pounds in 100 lbs. of Feedingstuff Protein		Fat		Crude Fiber	
		Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Red & White Corp. **Chicago, Ill.**							
+Kenilworth Brand Dog Food Kibbled Ration	Keene	21.00	23.2	3.00	3.8	2.00	1.8
Rival Packing Co. **Chicago, Ill.**							
Rival Dog Food	Nashua	11.50	12.6	2.50	3.0	1.00	1.0
Spratt's Patent Ltd. **Newark 5, N. J.**							
Spratt's Cat Food	Manchester	20.00	20.8	2.00	3.2	1.50	0.8
Swift & Co. **Chicago, Ill.**							
Pard Swift's Dog Food	Nashua	10.50	10.3	2.50	6.4	1.00	0.5
Timerson Canning Co., Inc. **Fair Haven, N. Y.**							
Flip Dog & Cat Food	Portsmouth	8.00	9.7	2.50	3.3	1.50	1.4
Timco Dog & Cat Food	Newport	12.00	12.8	2.50	10.8	1.25	1.2
Usen Canning Co. **Boston, Mass.**							
+Cop-E-Cat All Fish Cat Food	Claremont	16.00	16.1	0.30	0.3	0.30	0.02
Tabby All Fish Cat Food	Claremont	16.00	16.7	0.30	2.2	0.30	0.02
Wilson & Co., Inc. **Chicago, Ill.**							
+Ideal Dog Food	Nashua	10.00	10.0	2.00	4.8	1.00	0.7

* Protein and fat not less than, crude fiber not more than.
\+ Unregistered when sampled.

The following products were unregistered by the New Hampshire Department of Agriculture at the time they were found exposed for sale, but samples were not drawn.

Allen Company, E. T. Empire 41% Protein Cottonseed Meal	Atlanta, Georgia 41-4-13
Gloucester By-Products Company Globpro Brand Fish Meal	Gloucester, Massachusetts 55-5-2
Seaboard Supply Company General Purpose Mineral Feed	Philadelphia, Pennsylvania
Stevens & Son, Walter B. Stevens Dog Candy	155 W. Broadway, N. Y., N. Y.